

Human Exposure and Risk Assessment

Page: 1 of 46

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICIAL RECORD HEALTH EFFECTS DIVISION SCIENTIFIC DATA REVIEWS EPA SERIES 361

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

DATE:

March 22, 2004

SUBJECT:

Myclobutanil Human Exposure and Risk Assessments for the Section 18

12 3/22/04

Emergency Exemptions on Soybean in Minnesota (04MN06) and South Dakota

(04SD03) for Control of Soybean Rust

PC Code:

128857

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Executive Summary

Section 18 requests for the use of myclobutanil to control soybean rust have prompted a reassessment of the potential risk from its use.

Dietary Exposure and Risk

Acute and chronic dietary exposure and risk analyses were conducted to determine the exposure and risk estimates resulting from the use of myclobutanil to control soybean rust. The assessment is prompted by a Section 18 Emergency Exemption request submitted by the States of Minnesota and North Dakota. The acute analysis is based on Tier I assumptions of tolerance-level residues and 100% crop treated. The chronic analysis is partially refined in that it incorporates estimates of average percent crop treated (%CT) for some crops, as well as Pesticide Data Program (PDP) monitoring data from apple juice, bananas (not plantains) and milk. The Dietary Exposure Evaluation Model (DEEM-FCIDTM, Version 1.36) which uses food

Human Exposure for Close cosessmen

DF Bureauer D296 lits Page: 2 of 46

consumption data from the USDA's Continuing Surveys of Food Intakes by Individuals (CSFII) from 1994-1996 and 1998 was used to estimate acute and chronic dietary risks. Based on highly conservative assumptions, acute dietary risk is not expected to exceed 2% of the acute. Population Adjusted Dose (aPAD) for women aged 13 to 49 years old, the population group of interest. Using %CT estimates for some crops and PDP monitoring data, chronic dietary risk is not expected to exceed 25% of the chronic Population Adjusted Dose (cPAD) for any population subgroup. Neither acute nor chronic dietary risk estimates exceed the Agency's level of concern.

Risk from Residues in Water

The Agency used the Screening Concentration in Ground Water (SCI-GROW) to calculate myclobutanil EECs in ground water and the First Index Reservoir Screening Tool (FIRST) to calculate EECs in surface water. The assessments assumed use patterns for hops: 15 applications per year, 0.65 lb ai/A per application, and a 14-day interval. The proposed use pattern for myclobutanil under the Section 18 is no more than 2 applications of 0.13 lb ai/A and a PHI of 28 days. Therefore, the assumptions under which the water EEC values were calculated lead to an overestimate of the potential residue concentration in water from the use of myclobutanil on soybeans.

Based on the FIRST model the estimated environmental concentrations (EECs) of myclobutanii in surface water are 333 ppb and 86 ppb for acute and chronic exposures, respectively. The EEC for both acute and chronic exposures is estimated as 3.2 ppb for ground water using the SCI-GROW model.

Residential Exposure and Risk

Potential for exposure and risk exists from the homeowner use of myclobutanil. For homeowner handlers, the lowest Margin of Exposure (MOE) is 770 for dermal exposures while applying myclobutanil to turf with a garden-hose applicator. The lowest combined MOE for homeowners who apply myclobutanil to both turf and ornamentals is 600 for dermal exposures. Therefore, since the Agency's level of concern for myclobutanil is for MOEs less than 100, potential risk to homeowner handlers is well below the level of concern

For residential post-application exposures, the lowest short-term MOE is 560 for dermal exposures for toddlers on turf. The lowest MOE for combined exposure is 520 for toddlers hand-to-mouth and dermal intermediate-term exposures to residues on turf. Therefore, since the Agency's level of concern for myelobutanil is for MOEs less than 100, potential risk to handlers is well below the level of concern.

Occupational Exposure and Risk

Based on the proposed use patterns in soybeans, occupational handlers are expected to have dermal and inhalation exposures. The lowest estimated dermal and inhalation MOEs are 2040 and 333, respectively, for mixer/loaders. Note that the dermal MOE of 2040 is achieved only by

Human Exposure and Risk Assessment

DP Barcode: D296308 Page: 3 of 46

wearing a single layer of protective clothing <u>and</u> gloves. Without gloves, MOEs are lower than 100. Therefore, since The Agency's level of concern for myclobutanil is for MOEs less than 100, potential risk to handlers is well below the level of concern. Therefore, the use directions for this Section must require that mixer/loaders wear gloves when handling myclobutanil.

Because of the high interest in soybean rust and the need to scout fields to confirm its presence, the Agency conducted an assessment of post-application exposures for scouting activities. Post-application MOEs are 2083. Since the Agency's level of concern for myclobutanil is for MOEs less than 100, potential risk for occupational post-application exposures is well below the Agency's level of concern.

Cancer Dietary Exposure Results and Characterization

The third HIARC to discuss myclobutanil toxicity confirmed that cancer risk is most appropriately assessed using the reference dose approach rather than the Q_1^* methodology. Exposure to myclobutanil for the total U.S. Population, at 2% of the cPAD, is below the Agency's level of concern.

Aggregate Exposure and Risk

The acute dietary risk estimates (food only) are based upon 100% CT and tolerance level residues. The Agency has estimated that the acute dietary exposure to myclobutanil from food for females 13-49 years old will utilize 2% of the aPAD. For acute dietary risk, the Agency's level of concern is for exposures >100% aPAD. The Environmental Fate and Effects Division (EFED) supplied surface and ground water EECs which do not exceed calculated Drinking Water Level Of Comparison (DWLOCs). Therefore, the Agency does not expect the acute aggregate exposure estimates to exceed the Agency's level of concern. No acute endpoint was chosen for the general U.S. population (including infants and children). Therefore, an acute risk assessment for those subpopulations was not performed.

The chronic dietary risk estimates (food only) are based upon tolerance level residues for most commodities, and average %CT data for some food commodities. However, for apple juice, bananas (not plantains) and milk, monitoring data from the USDA's PDP were used. The most highly exposed population subgroup for chronic dietary exposure (children 1-2 years old) accounts for 24% of the cPAD. For chronic dietary risk, The Agency's level of concern is for exposures >100% cPAD. EFED supplied surface and ground water modeling estimates which do not exceed the Agency's calculated DWLOCs for any subpopulation. The registered residential uses do not constitute a chronic scenario. Therefore, the Agency does not expect the chronic aggregate exposure estimates to exceed the Agency's level of concern.

HED Hazard Identification Assessment Review Committee (HIARC) determined that oral and dermal exposures can not be aggregated due to differences in the toxicological endpoints via the oral (developmental) and dermal (no systemic toxicity) routes (Memo, M. Copley, 9/2/99).

Human Exposure and Risk Assessment

DP Barcone: D296308

Page. 4 et 46

Therefore, a short-term aggregate exposure risk assessment was not performed.

Intermediate-term aggregate risk estimates do not exceed the Agency's level of concern. The Agency aggregated the chronic dietary exposure (food only) and residential exposure (dermai from garden uses) for the general U.S. Population and those population subgroups for which residential exposure is expected. The total MOEs for the general U.S. population and infants/children are 3000 and 740, respectively (the Agency's acceptable level for myclobutanil is for MOEs ≥100). EFED supplied surface and ground water modeling estimates which do not exceed the Agency's calculated DWLOCs for the general U.S. population or infants/children. Therefore, the Agency does not expect the intermediate-term aggregate exposure estimates to exceed the Agency's level of concern.

I. Introduction

The States of Minnesota and South Dakota have petitioned the Agency requesting an Emergency Exemption for myclobutanil to control soybean rust under Section 18 of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). In conjunction with that petition, the petitioners have requested the establishment of temporary tolerances for residues of myclobutanil on soybean and processed soybean commodities.

Although *Phakopsora pachyrhizi*, the soybean rust pathogen, has not yet been identified in the continental United States, it has been detected in South America. As a designated biosecurity threat, it is important that control measures be available if soybean rust is identified in the United States. Under the proposed use, soybeans could be treated upon the official confirmed identification of soybean rust in the United States.

In January of 2001, time-limited tolerances were established for residues of myclobutant in or on sugarbeet roots, tops and by-products. The risk assessment underlying these temporary tolerances was published in Federal Register 66(2):298-306(1/3/01) and forms the basis of the current risk assessment for residues of myclobutanil on soybeans.

H. Residue Information

Proposed application parameters in the Section 18 request call for up to 2 applications of myelobutanil at an application rate of 2.0 oz (0.125 lb) a.i./A, equivalent to approximately 56 g a.i./A. The Section 18 requested a PHI of 28 days, which is longer than the PHI used in soybean field trials. In 1999, residue field trials were conducted on soybean in South America. Note that the authorization of this Section 18 should prohibit the feeding of soybean forage and hay to livestock. In two studies¹, soybeans were treated at two application rates of myelobutanil

¹Study 1: "Myclobutanil Residue in Soybean After Treatment with Systhane CI: Fungide, Brazil - 2001-02", Pinheiro, A.C. Study ID: GHB-P803, June 17-2002 Study 2: "Determination of Myclobutanil (Systhane RFI 3866) Residue in Soybean, without

Human Exposure and Risk Assessment

DP Barcode: D296308

Page: 5 of 46

emulsifiable concentrate; 125 or 250 g a.i./ha, equivalent to approximately 50 and 100 g a.i./A. One application was made 24 days before harvest. For purposes of this risk assessment, it was assumed that the application parameters employed in the soybean trials are equivalent to those requested in the Section 18. Residues were < 0.02 ppm for both application rates in Study #RH09-10/99 and < 0.01 ppm for the 125 g treatment in Study #GHB-P8031 and 0.03 ppm for the 250 g treatment. The residues observed in soybean field trials did not exceed the level of the inadvertent residues tolerances of 0.03 ppm currently listed in 40 CFR 180.443. Therefore, a residue level of 0.03 ppm was assumed for soybeans. The residues pertinent to the myclobutanil dietary risk assessments are shown in Table 1.

Table 1. Tolerances for Myclobutanil from 40 CFR 180.443					
Crop Commodity	Tolerance in ppm	Expiration/Revo- cation Date			
Almond nutmeat	0.1				
Apple	0.5				
Asparagus	0.02				
Banana, postharvest	4.0				
Bean, snap, succulent	1.0				
Caneberry subgroup 13A	2.0				
Cattle, fat	0.05				
Cattle, liver	1.0				
Cattle, meat	0.1				
Cattle, meat byproducts, except liver	0.2				
Cherry, sweet	5.0				
Cheery, tart	5.0				
Cotton seed	0.02				
Currant	3.0				
Egg	0.02				
Fruit, stone (except cherry)	2.0				
Goat, fat	0.05				
Goat, liver	1.0				
Goat, meat	0.1				
Goat, meat byproducts, except liver	0.2				

Human Exposure and Risk Assessment

DP Barcody, 19296308. Page: 6 o. 46

	Tolerance	Expiration/Revo-
Crop Commodity	in ppm	cation Date
Gooseberry	2.0	
Grape	1.0	
Hog, fat	0.05	
Hog, liver	1.0	
Hog, meat	0.1	and the second s
Hog, meat byproducts, except liver	0.2	Per annu commence and a second contract of the second contract of th
Horse, fat	0.05	
Horse, liver	(,()	
Horse, meat	0.1	
Horse, meat byproducts, except liver	0.2	
Mayhaw	0.7	
Milk	0.2	
Peppermint, tops	3.0	77 6 444
Plum, prune, dried	8.0	1
Poultry, fat	0.02	The state of the s
Poultry, meat	0.02	
Poultry, meat byproducts	0.02	
Raisins	10.0	
Sheep, fat	0.05	
Sheep, liver	1.(1	The state of the s
Sheep, meat	().]	Times distance of the second s
Sheep, meat byproducts, except liver	0.2	Annual Annual A Miles (Appendix in the Property of the Annual Annual Annual Annual Annual Annual Annual Annual
Spearmint, tops	3.0	The second secon
Strawberry	().5	
Tomato	0.3	
Tomato, puree	0.5	-
Tomato, paste	1.0	
Vegetable, cucurbit, group ⁹	0,2	
Time limited tolerances under Secti	on 18 emerge	ncy exemptions
Artichoke, globe	1.0	6/30/05

Human Exposure and Risk Assessment

DP Barcode: D296308

Page: 7 of 46

Crop Commodity	Tolerance in ppm	Expiration/Revo- cation Date
Beet, sugar, refined sugar	0.7	12/31/04
Hop, dried cone	5.0	12/31/05
Pepper	1.0	6/30/05
Indirect or inadve	ertent residues	
Grain, cereal, group 15	0.03	
Vegetable, brassica, leafy, group 5	0.03	
Vegetable, fruiting, group 8	0.03	
Vegetable, leafy, except brassica, group 4	0.03	
Vegetable, Legume, group 6	0.03	
Vegetable, root and tuber, group 1	0.03	

Note: Tolerances in animal feed commodities have been excluded from this summary. Tolerances in meat, milk, poultry and eggs were calculated incorporating the tolerances on those feedstuffs.

Myclobutanil Use Data

The %CT estimates were taken from the most recent risk assessment, Federal Register 66(2):298-306(1/3/01). The values were checked against the web-based database maintained by USDA's National Agricultural Statistics Service(http://www.pestmanagement.info/nass/). The higher %CT estimate was used for any crop showing significant differences from the value reported in the January 2001 Federal Register notice.

EPA's Biological and Economic Analysis Division (BEAD) provided information about myclobutanil use patterns in the 1996 to 1997 time span² for commodities used as animal feed items. These data indicated that livestock dietary burdens have not substantially changed between 2004 and *ca.* 1996, so that the PDP monitoring residue data for milk may be used in this Section 18 assessment. It should be noted that USDA's PDP is collecting milk samples for myclobutanil analyses, and those data should be used to update this assessment when available.

III. DEEM Program and Consumption Information

The Dietary Exposure Evaluation Model (DEEM-FCID®) analysis evaluated the individual food consumption as reported by respondents in the USDA 1994–1996 and 1998 nationwide CSFII and accumulated exposure to the chemical for each commodity. The acute analysis was performed for females 13–49 years old using published tolerance level residues (40 CFR

²E-mail from Jihad Alsadek, BEAD, March 4, 2004 and attached document "myclobutanil.wpd" containing myclobutanil use estimates for animal feed commodities.

Human Exposure and Risk Assessment

DP Barcade D290308 Page: 8 of 46

180.443) and 100% CT for <u>all</u> commodities. Therefore, the acute risk was evaluated at the 95th percentile. The aPAD for females 13–49 years old is 0.6 mg/kg/day. For acute dietary risk. EPA's level of concern is >100% aPAD. No acute dietary exposure analysis was performed for the general U.S. population, including infants and children, because no endpoint was chosen for these population subgroups.

For conducting this chronic dietary risk assessment the DEEM® analysis evaluated the mean food consumption as reported by respondents in the USDA 1994-1996 and 1998 nationwide CSFII and accumulated exposure to the chemical for each commodity. The chronic analysis was performed using published tolerance levels for all commodities, except apple juice, bananas and milk, for which monitoring data from the USDA's Pesticide Data Program were used. For the chronic analysis, %CT information was used for apples, apricots, cherries, grapes, nectarines, peaches, plums, and cotton and 100% CT was assumed for all other commodities.

The Agency used %CT information in a refined chronic dietary risk assessment as follows: apples at 40%, apricots at 15%, cherries at 40%, grapes at 45%, nectarines at 20%, peaches at 10%, plums at 15% and cotton at 1%. These values were confirmed against the USDA's National Agricultural Statistics web database. 100% crop treated was assumed for all other commodities.

IV. Toxicological Information

The aPAD was 0.6 mg/kg bw/day for women 13 to 49 years old. The ePAD was 0.025 mg/kg bw/day for all population groups.

HED's Hazard Identification Review Committee (HIARC) met on August 12, 1999 to determine endpoint selection for myclobutanil. At this meeting, the HIARC also reassessed FQPA requirements as required by the Food Quality Protection Act (FQPA) of 1996 The HIARC also re-assessed the doses and endpoints appropriate for acute dietary, chronic dietary, occupational and residential risk assessments. The toxicity endpoints pertinent for human risk assessment are summarized in Table 2.

Human Exposure and Risk Assessment

DP Barcode: D296308

Page: 9 of 46

Table 2. Summary of Toxicological Doses and Endpoints for Myclobutanil
for Use in Human Health Risk Assessment

	for Use in Human Health Risk Assessment					
Exposure Scenario	- I		Study and Toxicological Effects			
Acute Dietary (Females 13- 50)	NOEL = 60 mg/kg/day UF = 100 Acute RfD = 0.6 mg/kg/day	FQPA SF = 1X aPAD =acute RfD = 0.6 mg/kg/day	Developmental Toxicity Study - Rats. LOAEL = 200 mg/kg/day based on increased resorptions, decreased litter size and a decrease in the viability index			
Acute Dietary (General Population)	None	N/A	N/A			
Chronic Dietary (All populations)	NOAEL= 2.49 mg/kg/day UF = 100 Chronic RfD = 0.025 mg/kg/day	FQPA SF = 1X cPAD =chronic RfD = 0.025 mg/kg/day	Chronic Toxicity/Oncogenicity Study - Rats LOAEL = 10 mg/kg/day based on decreased testicular weights and increased testicular atrophy			
Short Term (1- 30 days) Dermal	NOAEL = 100 mg ai/kg/day	Residential MOE = 100 Occupational MOE = 100	28-day Dermal Toxicity - Rats. There were no signs of toxicity at the high dose of 100 mg/kg a.i.			
Intermediate Term (1-6 months) Dermal	Oral NOAEL = 10 mg ai/kg/day	Residential MOE = 100 Occupational MOE = 100	2 Generation Reproduction Toxicity - Rat. LOAEL = 50 mg/kg bw/day based on atrophy of the testes and prostate as well as an increase in the number of stillborn pups and a decrease in pup weight gain during lactation.			

Human Exposure and Risk Assessment

DP Barcode: D296308; Page: 10 of 46

Table 2. Summary of Toxicological Doses and Endpoints for Myclobutanil for Use in Human Health Risk Assessment					
Exposure Scenario	Dose Used in Risk Assessment, UF	Hazard and Exposure Based Special FQPA Safety Factor	Study and Toxicological Effects		
Long Term Dermal (> 6 months)	Oral NOAEL = 2.49 mg/kg/day	Residential MOE 100 Occupational MOE 100	Chronic Toxicity/Carcinogenicity - Rat LOAEL = 10 mg/kg/day based on decreased testicular weights and increased testicular atrophy.		
Short Term (1-30 Days) Inhalation	Oral NOAEL = 10 mg/kg/day	Residential MOE 100 Occupational MOE = 100	2 Generation Reproduction Toxicity Study - Rats. LOAEL = 50 mg/kg bw/day based on atrophy of the testes and prostate as well as an increase in the number of stillborn pups and a decrease in pup weight gain during factation.		
Intermediate Term (1-6 months) Inhalation	Oral NOAEL = 10 mg/kg/day .	Residential MOF. – 100 Occupational MOE = 100	2 Generation Reproduction Toxicity Study - Rats, LOAEL - 50 mg/kg bw/day based on atrophy of the testes and prostate as well as an increase in the number of stillborn pups and a decrease in pup weight gain during factation.		
Long Term Inhalation (> 6 months)	Oral NOAEL = 2.49 mg/kg/day	Residential MOE - 100 Occupational MOE = 100	Chronic Toxicity-Carcinogenicity - Rat LOAFI = 10 mg/kg/day based on decreased testicular weights and increased testicular attophy		
Cancer	Group E- likely not a hu	man carcinogen			

V. Results/Discussion

For acute and chronic assessments, the Agency is concerned when dictary rish exceeds 100% of the aPAD. The DEEM® analyses estimate the dictary exposure of the US population

Human Exposure and Risk Assessment

DP Barcode: D296308

Page: 11 of 46

and 26 population subgroups.

Acute Dietary Exposure Analysis. Results (Table 3) are reported at the 95th percentile of exposure because the assessment incorporated 100% CT assumptions and tolerance-level residues. The estimated acute dietary exposure, at 2% of the aPAD, does not exceed 100% of the aPAD for Females 13-49 years, the population subgroup of interest.

Chronic Dietary Exposure Analysis. The results of the refined chronic dietary exposure analysis are summarized in Table 3. Children 1-2 years old are the most highly exposed population group, at 0.006616 mg/kg/day, equivalent to 25% of the cPAD. All other population groups have estimated exposures less than this amount. Therefore, estimated exposures for all population groups is < 100% of the cPAD.

Table 3. Summary of Dietary Exposure and Risk for Myclobutanil							
	Acute Dietary (95 th Percentile)		Chronic D	Chronic Dietary		er	
Population Subgroup	Dietary Exposure (mg/kg/day)	% aPAD	Dietary Exposure (mg/kg/day)	% cPAD	Dietary Exposure (mg/kg/day)	Risk	
General U.S. Population			0.002047	8			
All Infants (< 1 year old)			0.003172	13			
Children 1-2 years old			0.006166	25			
Children 3-5 years old	N/A		0.004921	20			
Children 6-12 years old			0.002973	12	N/A		
Youth 13-19 years old			0.001633	7			
Adults 20-49 years old			0.001548	6			
Adults 50+ years old			0.001608	6			
Females 13-49 years old	0.012261	2	0.001522	6			

Residential Exposure and Risk

Myclobutanil is present in numerous end-use products, including those registered for use on turf, roses, flowers, shrubs and trees. Soluble concentrate may be applied with hose-end or trigger bottle sprayers. Small scale lawn application has the greatest potential for homeowner exposures. Short and intermediate-term exposures are expected for residential handlers. The HIARC has determined that a 50% dermal absorption factor should be applied for <u>intermediate-term</u> assessments. A dermal absorption factor is not required for short-term assessments because the

Human Exposure and Risk Assessment

DP Barcode, D296308 Page: 12 of 46

NOAEL used is based upon a 28-day dermal study.

The most recent residential risk assessment was conducted for the Section 18 on sugar beets, and residential usage has not changed since that time. Therefore, the exposure values summarized in that assessment are valid for the current assessment for the proposed Section 18 on soybean. The residential MOEs are summarized in Tables 4 to 6. Note that this memo calculates exposures, and rounds to two significant figures; e.g., an MOE of 2687 would be entered in the summary table as 2700.

Table 4. Baseline Short-Term MOEs for Homeowner Use of Myclobutanil						
Mix/Load/App ly Exposure	Total Daily Dose (mg/kg/day)		Short-Term MOE		Combined Short-Term MOI Turf Orn. treatment	
Scenario	Dermal	Inhalation	Dermal	Inhalation	Dermal	Inhalation
Garden hose application to turfgrass	0.13	0.000044	770	230000	600	23000
Trigger spray- er application to ornamentals	0.036	0.0000011	2800	9100000		

Dermal NOAEL: 100 mg/kg/day Inhalation NOAEL: 10 mg/kg/day

Table 5. Residential Post-Application MOEs for Myclobutanil						
Scenario	Daily Dose (Daily Dose (mg/kg/day)		Interm	Combine	d MOH
	Short Interm MOE MOE	Short	Interm			
Adult dermal -	0.073	0.011	1400	9]()		
Adult dermal - ornamentals	0.017	N/A	5900	N/A	1 1 ()()	NA
Toddler - hand- to-mouth	N/A	0.0013	N/A	7700		
					N/A	52()

Human Exposure and Risk Assessment

DP Barcode: D296308 Page: 13 of 46

Table 5. Residential Post-Application MOEs for Myclobutanil							
Scenario	Daily Dose (mg/kg/day)		Short-	Interm	Combine	Combined MOE	
	Short	Interm	Term MOE	Term MOE	Short	Interm	
Toddler dermal - turf	0.12	0.018^{1}	830	560			
Youth dermal - ornamentals	0.0074	N/A	14000	N/A	N/A	N/A	

Short-Term NOAEL: 100 mg/kg/day Intermediate-Term NOAEL: 10 mg/kg/day

¹ Incorporates a 50% dermal absorption factor

Table 6. Combined Residential Handler and Post-	Application Der	mal Exposures
Scenario	Short-Term MOE	Combined Short-Term MOE
Handler applying to turf and ornamentals	600	390
Adult post-application exposure to turf and ornamentals	1100	

Since MOEs less than 100 are of concern, there are no residential risk concerns for myclobutanil.

Water Exposure and Risk

There are no health advisory levels or Maximum Contaminant Levels established for residues of myclobutanil in drinking water. The Agency used the Screening Concentration in Ground Water (SCI-GROW) to calculate myclobutanil EECs in ground water and the First Index Reservoir Screening Tool (FIRST) to calculate EECs in surface water. Model assumptions followed the use patterns for hops: 15 applications per year, 0.65 lb a.i./application, and 14 day PHI⁴. These assumptions are much higher than the proposed patterns in the Section 18. Based on the FIRST model, the estimated environmental concentrations (EECs) of myclobutanil for acute exposures are 333 ppb and 86 ppb for chronic exposures. The EEC for both acute and chronic exposures is estimated as 3.2 ppb for surface water using the SCI-GROW model.

A drinking water level of comparison (DWLOC) is a theoretical upper limit on a pesticide's concentration in drinking water in light of total aggregate exposure to a pesticide in food,

⁴"Myclobutanil (Rally 40W) on Peppers IN California Rohm and Hass Company/Dow AgroSciences." Memo from T. Nguyen to R. Forrest, June 9, 2003, DP Barcode D289700 and D290167.

DP Barcode: D296508

Human Exposure and Risk Assessment

PC Code: 128857 Page: 14 of 46

drinking water, and through residential uses. A DWLOC will vary depending on the toxic endpoint, drinking water consumption, body weights, and pesticide uses. Different populations will have different DWLOCs. The Agency uses DWLOCs in the risk assessment process to assess potential concern for exposure associated with pesticides in drinking water. DWLOC values are not regulatory standards for drinking water.

VI. Worker Exposure and Risk

Myclobutanil

Although the existing risk assessment and inadvertent residues tolerances on soybeans is being used to support the Section 18 request of the use of myclobutanil on soybean, it was necessary to conduct an assessment of worker risk using the soybean use patterns. For myclobutanil, toxicity endpoints were taken from "Memo, M. Copley, HED DOC No. 013746. "MYCLOBUTANIL: - Second Report of the Hazard Identification Assessment Review Committee.", 2 September 1999." The dermal toxicological endpoint (NOAEL 100 mg a.i./kg bw/day) was taken from a 28-day dermal toxicity study in the rat. Therefore, there was no correction for dermal absorption. The inhalation toxicological endpoint (NOAEL 10 mg a.i./kg bw/day) was taken from a 2-generation reproduction toxicity study in the rat where the effects seen were atrophy of the testes and prostate as well as an increase in the number of stillborn pups and a decrease is pup weight gain during factation. The ADD for dermal exposure for myclobutanil is calculated as

ADD = Unit Exposure * Application Rate * Units Treated > 70 kg bw

Since the inhalation endpoint was taken from a developmental study showing fetal effects, 60 kg is used to calculate inhalation exposure. A summary of the worker risk calculations is provided in Table 7.

Table 7: Sun	ımary of Exposu for Myclob		s to Occupatio atrol Soybean I		Handlers
Unit Exposure ¹ mg/lb ai handled	Application Rate ² Ib ai/Acre	Units Treated ³ Acres/Day	Average Daily Dose ^a mg a.i./kg bw/day	NOAEL ⁵ mg a.i./kg bw/day	MOE ⁶
	Mixer/L	oader - Liquic	d - Open Loadir	ng	
Dermal: SLNG 2.9 HC SLWG 0.023 HC Inhal 0.0012HC	2.0 oz ai/A 0.125 lb ai/A	1200	Dermal SLNG 6.24 SLWG 0.049 Inhalation 0.003	Dermal 100 from 28 day dermal Inhalation 10	Dermal SLNG 20 SLWG 2000 Inhalation 3300

Dermal:

SLNG 0.014 HC

SLWG 0.014 MC

Human Exposure and Risk Assessment

2.0 oz ai/A

0.125 lb ai/A

DP Barcode: D296308 Page: 15 of 46

Dermal

SLNG

10,000

Dermal

28 day

100 from

Table 7: Summary of Exposures and Risks to Occupational Pesticide Handlers					
for Myclobutanil to Control Soybean Rust.					

Dermal

SLNG 0.01

SLWG 0.01

200

Inhal 0.00074HC			Inhalation 0.00062	dermal Inhalation 10	SLWG 10,000 Inhalation 16,000		
	Applicator - Aerial - Fixed Wing						
Dermal: SLNG 0.0050 MC	2.0 oz ai/A 0.125 lb ai/A	1200	Dermal SLNG 0.01	Dermal 100 from 28 day	Dermal SLNG 10,000		
SLWG 0.0022 LC lnhal 0.000068 MC			Inhalation 0.00017	dermal Inhalation 10	Inhalation 59,000		

- 1. Unit Exposure = mg a.i./lb a.i. handled from PHED SURROGATE EXPOSURE GUIDE Estimates of Worker Exposure from the Pesticide Handler Exposure Database Version 1.1, August 1998. Dermal: SLNG = a Single Layer of work clothing (i.e., long pants, long-sleeved shirt, shoes plus socks) and **No** protective gloves. SLWG = a single layer of work clothing **and the use of** protective gloves (i.e., **with** gloves). Inhal = Inhalation exposure.
- 2. Application Rate taken from Section 18 Request, Corresp. J. Sierk Minnesota Dept. Agricult. to D. Rosenblatt, 30 January 2004.
- 3. Units Treated taken from Science Advisory Council for Exposure, Standard Operating Procedure 9.1, Standard Values for Daily Acres Treated in Agriculture, Rev. 25 SEP 2001.
- 4. Average Daily Dose (ADD) is derived by:

Unit Exposure * Application Rate * Units Treated * Absorption Factor (when applicable) ÷ Body Weight.

NOTE a) Dermal absorption is **not** corrected if the toxicological endpoints were identified from a dermal toxicity study. Otherwise, the dermal absorption factor is utilized as identified by the HED HIARC. Inhalation absorption is assumed to be 100 %.

NOTE b) Body weight is assumed to be 70 kg **unless** the toxicological endpoints (NOAEL) are identified from a developmental study which showed fetal effects. Then, 60 kg bw is used.

- 5. No Observed Adverse Effect Level (NOAEL) (mg a.i./kg bw/day) are taken from the HED Hazard Identification Assessment Review Committee (HIARC) report.
- 6. Margin Of Exposure (MOE) = NOAEL (mg a.i./kg bw/day) ÷ ADD (mg a.i./kg bw/day).

There is a potential for agricultural workers to have post-application exposure to pesticides during the course of typical agricultural activities. Health Effects Division in conjunction with the Agricultural Re-entry Task Force (ARTF) has identified a number of post-application agricultural activities that may occur. HED has also identified Transfer Coefficients (TC) (expressed as cm²/hr) relative to the various activities.

Human Exposure and Risk Assessment

DP Barcode D296308

Page: 16 of 46

The transfer coefficients used in this assessment are from an interim transfer coefficient SOP developed by HED's Science Advisory Council for Exposure using proprietary data from the Agricultural Re-Entry Task Force (ARTF) database (SOP # 3.1). It is the intention of HED's Science Advisory Council for Exposure that this SOP will be periodically updated to incorporate additional information about agricultural practices in crops and new data on transfer coefficients. Much of this information will originate from exposure studies currently being conducted by the ARTF, from further analysis of studies already submitted to the Agency, and from studies in the published scientific literature.

For the proposed use, the activity with the highest TC is scouting the crop in full foliage stages of crop development with a TC of 1,500 cm²/hr.

Lacking compound specific data, the Agency assumes 20 % of the application rate is available as foliar dislodgeable residue on day zero after application. This is adapted from the Science Advisory Council For Exposure SOP No. 003 (7 May 1998 - Revised 7 August 2000). The following convention may be used to estimate post-application exposure.

```
Surrogate Dislodgeable Foliar Residue
```

DFR =

application rate * 20% available as dislodgeable residue * $(1-D)^{t}$ * $4.54 \times 10^{8} \, \mu g/Jb$ * $2.47 \times 10^{8} \, A/cm^{2}$

and the Average Daily Dose (ADD) = DFR μg/cm² * TC cm²/hr * hr/day * 0.001 mg/μg * 1/70 kg bw.

For myclobutanil, the calculations are:

```
DFR = 0.125 lb a.i./A * .20 * (1-0)^6 * 4.54 x 10^6 µg/lb * 2.47 x 10^{-8} A/cm<sup>2</sup> = 0.28 µg/cm<sup>2</sup>
```

ADD = $0.28 \mu g/cm^2 * 1,500 cm^2/hr * 8 hr/day * 0.001 mg/<math>\mu g$ * 1/70 kg bw = 0.048 mg/kg bw/day

Since MOE = NOAEL + ADD then 100 mg/kg bw/day = 0.048 mg/kg bw/day = 2083.

VII. Aggregate Exposure and Risk

DWLOCs were calculated for acute and chronic exposure to myclobutanil in surface and ground water. To calculate the DWLOC for acute exposure relative to an acute toxicity endpoint, the acute dietary food exposure (from DEEM™) was subtracted from the aPAD to obtain the acceptable acute exposure to myclobutanil in drinking water. Residential exposure was not applied issue for short term risk. Aggregate acute risk is summarized in Table 8.

Human Exposure and Risk Assessment

DP Barcode: D296308

Page: 17 of 46

Table 8. Aggregate Risk Summary - Acute Exposures							
		Food Exposure	Maximum Water		EEC	C (ppb)	
Population Group	aPAD (mg/kg/day)	(mg/kg/day) 95 th Percentile	Exposure (mg/kg/day)	DWLOC (ppb)	Surface Water	Ground Water	
Females 13- 49	0.6	0.012261	0.587739	18000	333	3.2	

Aggregate intermediate-term risk was calculated by subtracting chronic dietary and residential exposures from the intermediate-term PAD. As shown in Table 9, the water exposure for calculating the DWLOC was estimated by dividing the intermediate-term NOEL by the aggregate MOE. The aggregate MOE was calculated as

$$1/[(1/MOE_{food}) + (1/MOE_{residential oral}) + (1/MOE_{residential dermal})]$$

Table 9. Intermediate-Term Aggregate Risk Estimates for Myclobutanil						
,	on Subgroup and om Aggregate MOE] ⇒	Children 1-2 ¹ [100]	Gen Popn ² [100]			
Food Exposure	Chronic Food Exposure (mg/kg/day) [NOAEL]	0.006166 [10]	0.002047 [10]			
	Chronic Food MOE	1600	4900			
Residential Oral (incidental hand to	ADD Oral Exposure (mg/kg/day) [NOAEL]	0.0013 [10]	N/A			
mouth)	Oral MOE	7700				
Residential Dermal (50% dermal	ADD Dermal Exposure (mg/kg/day) [NOAEL]	0.018 [10]	0.011 [10]			
absorption)	Dermal MOE	560	910			
	Food + Residential Aggregate MOE	390	770			
Drinking Water	Allowable Water Exposure (mg/kg/day)	0.0743593	0.0870133			

Human Exposure and Risk Assessment

DP Barcode (D29630%) Pure: 18 of 46

Table 9. Intermediate-Term Aggregate Risk Estimates for Myclobutanil							
Population Subgroup and [Intermediate-Term Aggregate MOE] ⇒	Children 1-21 [100]	Gen Popn [100]					
Intermediate DWLOC (ppb)	740	2600					
Surface Water EEC (ppb)	3.21						
(fround Water EEC (ppb)	86 ⁴						

¹Children 1-2 years are being used as representatives of all children because they had the highest dietary exposure per kg.

²The US General Population exposure was estimated using the residential exposures for adults. In calculating the DWLOC, a body weight of 60 kg was assumed to minimize the value of the DWLOC, a protective measure

The water exposure was calculated as the PAD - tChronic food exposure + residential exposure). Because of the difference endpoints and routes. (Chronic food exposure + Residential exposure) was calculated as NOEL/[Food - Residential Aggregate MOE]. Thus, for children, the (Chronic food exposure + Residential exposure) is 10 mg/kg/day/390. or 0.025641 mg/kg/day. Water exposure is then calculated as 0.4 mg/kg/day - 0.025651 mg/kg/day, or 0.074359 mg/kg/day.

⁴For assessing intermediate-term aggregate risk, the DWLOC is compared to the chronic EEC

To calculate the DWLOC for chronic exposure relative to a chronic toxicity endpoint, the chronic dietary food exposure (from DEEMTM) was subtracted from the cPAD to obtain the acceptable chronic exposure to myclobutanil in drinking water. DWLOCs were then calculated using the default body weights and drinking water consumption figures listed; the aggregate chronic risks are summarized in Table 10.

Human Exposure and Risk Assessment

DP Barcode: D296308

Page: 19 of 46

Table	Table 10. Summary of Chronic Aggregate Risk for Myclobutanil							
Population Subgroup	cPAD (mg/kg/day)	Dietary Exposure (mg/kg/day)	bw (kg) ¹	Water (L) ²	DWLOC ³	EEC GW ⁴	EEC SW ⁵	
General U.S. Population		0.002047	70	2	800			
All Infants (< 1 year old)		0.003172	10	1	220			
Children 1-2 years old		0.006166	10	1	190			
Children 3-5 years old		0.004921	10	1	200			
Children 6-12 years old	0.025	0.002973	10	1	220	3.2	86	
Youth 13-19 years old		0.001633	60	2	700			
Adults 20-49 years old		0.001548	70	2	820			
Adults 50+ years old		0.001608	70	2	820	ļ	į	
Females 13-49 years old		0.001522	60	2	700			

¹Default body weight in kg

DWLOC(μ g/L) = [maximum water exposure (mg/kg/day) x body weight (kg)] ÷ [water consumption (L) x 10-3 mg/ μ g]

VIII. Discussion of Uncertainties

The acute analysis conducted for this assessment incorporates highly conservative assumptions regarding residue levels - tolerance levels for all commodities. This represents a

²Default water consumption in liters

³Drinking Water Level of Comparison, calculated as

⁴ Estimated Environmental Concentration for ground water, in ppb

⁵ Estimated Environmental Concentration for surface water, in ppb

Human Exposure and Risk Assessment

DP Barcour (D296308)

Page: Perofi46

screening-level approach and the Agency recognizes that the resulting dietary exposure and risk estimates are likely to be overestimates. While there are uncertainties associated with this type of analysis, their magnitude are likely to be insignificant relative to the degree of overestimation

The chronic dietary assessment likewise uses tolerance-level residues, as well as %CT estimates for some crops. For apple juice, bananas, and milk, the assessment uses tolerance level residues. The result is a more refined assessment from that conducted for acute dietary exposure. Although this approach uses less-conservative assumptions and increases the level of uncertainty in the analysis, it is still unlikely to underestimate dietary exposure and risk.

IX. Endocrine Disrupter Effects

EPA is required under the Federal Food Drug and Cosmetic Act (FFDCA), as amended by FQPA, to develop a screening program to determine whether certain substances (including ail pesticide active and other ingredients) "may have an effect in humans that is similar to an effect produced by a naturally occurring estrogen, or other such endocrine effects as the Administrator may designate." Following the recommendations of its Endocrine Disrupter Screening and Testing Advisory Committee (EDSTAC), EPA determined that there was scientific bases for including, as part of the program, the androgen and thyroid hormone systems, in addition to the estrogen hormone system. EPA also adopted EDSTAC's recommendation that the Program include evaluations of potential effects in wildlife. For pesticide chemicals, EPA will use FIFRA and, to the extent that effects in wildlife may help determine whether a substance may have an effect in humans, FFDCA authority to require the wildlife evaluations. As the science develops and resources allow, screening of additional hormone systems may be added to the Endocrine Disrupter Screening Program (EDSP).

When the appropriate screening and/or testing protocols being considered under the Agency's EDSP have been developed, myelobutanil may be subjected to additional screening and/or testing to better characterize effects related to endocrine disruption.

X. Cumulative Exposure to Substance with a Common Mechanism of Toxicity

The Food Quality Protection Act (1996) stipulates that when determining the safety of a pesticide chemical, EPA shall base its assessment of the risk posed by the chemical on, among other things, available information concerning the cumulative effects to human health that may result from dietary, residential, or other non-occupational exposure to other substances that have a common mechanism of toxicity. The reason for consideration of other substances is due to the possibility that low-level exposures to multiple chemical substances that cause a common toxic effect by a common mechanism could lead to the same adverse health effect as would a higher level of exposure to any of the other substances individually. A person exposed to a pesticide at a level that is considered safe may in fact experience harm if that person is also exposed to other substances that cause a common toxic effect by a mechanism common with that of the subject pesticide, even if the individual exposure levels to the other substances are also considered safe

The Agency did not perform a cumulative risk assessment as part of this tolerance action for

Human Exposure and Risk Assessment

DP Barcode: D296308

Page: 21 of 46

myclobutanil because HED has not yet initiated a review to determine if there are any other chemical substances that have a mechanism of toxicity common with that of myclobutanil. For purposes of this Section 18 request, EPA has assumed that myclobutanil does not have a common mechanism of toxicity with other substances.

On this basis, the petitioner must submit, upon EPA's request and according to a schedule determined by the Agency, such information as the Agency directs to be submitted in order to evaluate issues related to whether myclobutanil shares a common mechanism of toxicity with any other substance and, if so, whether any tolerances for myclobutanil need to be modified or revoked. If HED identifies other substances that share a common mechanism of toxicity with myclobutanil, The Agency will perform aggregate exposure assessments on each chemical, and will begin to conduct a cumulative risk assessment once the final guidance The Agency will use for conducting cumulative risk assessments is available.

HED has recently developed a framework that it proposes to use for conducting cumulative risk assessments on substances that have a common mechanism of toxicity. This guidance was issued for public comment on June 30, 2000 (65 FR 40644-40650) and is available from the OPP Website at: http://www.epa.gov/fedrgstr/EPA-PEST/2000/June/Day-30/6049.pdf. In the draft guidance, it is stated that a cumulative risk assessment of substances that cause a common toxic effect by a common mechanism will not be conducted until an aggregate exposure assessment of each substance has been completed. The proposed guidance on cumulative risk assessment of pesticide chemicals that have a common mechanism of toxicity is expected to be finalized by the summer of 2001.

Before undertaking a cumulative risk assessment, HED will follow procedures for identifying chemicals that have a common mechanism of toxicity as set forth in the "Guidance for Identifying Pesticide Chemicals and Other Substances that Have a Common Mechanism of Toxicity" (64 FR 5795-5796, February 5, 1999).

XI. Conclusions

Based on Tier 1 acute and Tier 3 chronic/cancer assumptions, the Agency has no risk concerns for dictary exposure to myclobutanil resulting from the use of the fungicide insecticide on the crops for which tolerances already exist. Soybeans are included in the registered crops. Although the soybean tolerances are for inadvertent residues, the magnitude of residues observed in residue field trials on soybeans do not exceed this level. The Agency also has no concerns regarding residential or aggregate exposures, including the potential for residues in drinking water.

Human Exposure and Risk Assessment

DP Barcode: D296308 Page: 22 of 46

XII. References

Unpublished, Dow Study #RH09-10/99, "Determination of Myclobutanil (Systhane RH 3866) Residue in Soybean, with Degradation Curve."

Unpublished, Dow Study #GHB-P 803, "Myclobutanil Residue in Soybean After Treatment with Systhane* CE - Fungicide, Brazil - 2001-02.

XI. List of Attachments

Attachment 1. Input Residues and Processing Factors for Myclobutanil Acute Dietary Assessment (Note: Percent Crop Treated was used for the chronic assessment but not for the acute assessment)

Attachment 2. Summary of Acute Tier 1 Dietary Exposure and Risk Estimates for Myclobutanit Attachment 3 - Input Residues and Processing Factors for Myclobutanil Chronic Dietary Assessment

Attachment 4. Summary of Chronic Refined Dietary Exposure and Risk Estimates for Myclobutanil.

cc: Mary Waller, Fungicides Branch, Registration Division (7505C)
Michael Doherty, Registration Action Branch 2, Health Effects Division (7509C)
J. R. Tomerlin, Fungicides Branch, Registration Division (7505C)

Human Exposure and Risk Assessment

DP Barcode: D296308 Page: 23 of 46

Attachment 1. Input Residues and Processing Factors for Myclobutanil.

U.S. Environmental Protection Agency DEEM-FCID Acute analysis for MYCLOBUTANIL Residue file name: C:\Documents and Settings\btomerli\My Documents\tzoles\risk\dietary\myclo\myclo-tol.R98 Analysis Date 02-25-2004 Residue file dated: 02-25-2004/10:41:05/8

Ver. 1.33

Reference dose (aRfD) = 0.6 mg/kg bw/day

Comment: Tolerance file to evaluate Section 18

Code	Crop Grp Food Name .	Def Res	Adj.Factors Comment #1 #2
	0 14 Almond		1.000 1.00040 CFR
14000033	Full comment: 40 CFR 180.443(a) 14 Almond-babyfood Full comment: 40 CFR 180.443(a)	0.100000	1.300 1.00040 CFR
14000040	14 Almond, oil Full comment: 40 CFR 180.443(a)	0.100000	1.300 1.00040 CFR
14000041	14 Almond, oil-babyfcod Full comment: 40 CFR 180.443(a)	0.100000	1.000 1.00040 CFR
04010050	4A Amaranth, leafy Full comment: 40 CFR 180.443(d)	0.030000	1.000 1.00040 CFR
11000070	11 Apple, fruit with peel Full comment: 40 CFR 180.443(a)	0.500000	1.000 0.40040 CFR
11000080	Til Apple, peeled fruit Full comment: 40 CFR 180.443(a)	0.500000	1.000 0.40040 CFR
11000081	11 Apple, peeled fruit-babyfood Full comment: 40 CFR 180.443(a)	0.500000	1.000 C.40040 CFR
11000090	11 Apple, dried Full comment: 40 CFR 180.443(a)	0.500000	8.000 0.40040 CFR
11000091	11 Apple, dried-babyfood Full comment: 40 CFR 180.443(a)	0.500000	8.000 0.40040 CFR
11000100	<pre>11 Apple, juice Full comment: 40 CFR 180.443(a)</pre>	0.500000	1.000 0.40040 CFR
11000101	11 Apple, juice-babyfood Full comment: 40 CFR 180.443(a)	0.500000	1.000 0.40040 CFR
11000110		0.500000	1.000 0.40040 CFR
11000111	11 Apple, sauce-babyfood Full comment: 40 CFR 180.443(a)	0.500000	1.000 0.40040 CFR
12000120	12 Apricot Full comment: 40 CFR 180.443(a)	2.000000	1.000 0.15040 CFR
12000121	12 Apricot-babyfood Full comment: 40 CFR 180,443(a)	2.000000	1.000 0.15040 CFR
	12 Apricot, dried Full comment: 40 CFR 180.443(a)	2.000000	6.000 0.15040 CER
	12 Apricot, juice Full comment: 40 CFR 180.443(a)	2.000000	1.000 0.13040 CFR
	12 Apricot, juice-babyfood Full comment: 40 CFR 180.443(a)	2.000000	1.000 0.15040 CFR
	1CD Arrowroot, flour Full comment: 40 CFR 180.443(d)	0.030000	1.000 1.00040 CFR
	1CD Arrowroot, flour-babyfood Full comment: 40 CFR 180.443(d)	0.030000	1.000 1.00040 CFR
	O Artichoke, globe Full comment: 40 CFR 180.443(b)	1.000000	1.000 1.00040 CFR
	1CD Artichoke, Jerusalem Full comment: 40 CFR 180.443(d)	0.030000	J.000 1.60046 CFR
04010180	Eull comment: 40 CFR 180.443(d)	0.030000	1.000 1.00040 CFR
95000190	Full comment: 40 CFR 180.443(a)	0.020000	1.000 1.00040 CFR
09020210	Full comment: 40 CFR 180.443(a)	0.200000	1.000 1.00040 CFR
95000230	O Banana	4.000000	1.000 1.00040 CFR

Human Exposure and Risk Assessment

DP Barcode 10296308 Page: 34 of 46

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95000231	O Banana-barytood Full comment: 40 FFR 185-4-50-5	4.963000	1.17/19	, Of a	*	
95000240	O Bahana, oriod	1.40000	s. Her.	14000	E. p	
95000241	Full comment: 46 CPS 186.44 (a) G Banana, dried-Dabyfood	4.000000	., 5900	1.350		
15000250	Fall comment: 46 CFC 186.462502 15 Saricy, pearled partey	Converse (12-506	1.00	1.5	
15000251	Fur. comment: 40 TFS 180.445:J. 15 Barley, pearied parkey-pabytood	0.03/1985	1.4.6	$\int_{\mathbb{R}^{n}} f(y) \cdot f(y) dy$	ling.	
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15000261	Full comment: 40 CFE 180.405(d) 15 Barley, I our-babylood	0.03000	1,000	1. Park	1,	
15000270	Full comments 46 tWh 186.44 here The Barley, then	((18(iii) ₁)	1,000	10.000.00	•	
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06030320	Full comment: 40 CFP 180.4410a: 60 Bean, 1998d, neep	0.03060)	: 000	1,197,007	1.5	
06020330	Full comment: 40 CFP 180,443(a) 68 Bean, cowpea, subsulent Full comment: 40 CFP 180,443(d)	0,930900	1.5 90	1.12 (114.4%)	.* *	
06030346	60 Bean, compens, poet etc.: comment: 40 Fb 180.4400d	0.030000	_ 141+1±	1000	14.3	
06050350	6 Bean, Street Forthern, Seet Ppl. Comment: 40 (175 180, 443 ct.	G. 353.07	1.300	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	• . •	
06030360	60 Rean, sidney, seco Full comment: 40 CFF (60.147(0)	11. 150 B	. , 1 (.6)	1.14 CB	٠.	
06020370	68 Bean, line, steel ent Pull somment: 40 SFF [80.445]d.	_ (1/37°,(196)	1.700	2000	. 1	
06030380	CC Boom, Lina, 1993 Pull commond: 10 (PF 186.445 td)	(a., 63.56%, 637)	, 45,000	47 d14 \$1	1.1	
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	eA Bean, snap, soc. floot-bubyteed E211 comment: 40 195 (80.448(a)					
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Human Exposure and Risk Assessment

DP Barcode: D296308 Page: 25 of 46

				
01010500	Full comment: 40 CFR 180.443(a) 1AB Reet, garden, roots Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
01010501	1AB Beet, garden, roots-babyfood Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
02000510		0.030000	1.000	1.00040 CFR
C1010520		0.700000	1.000	1.00040 CFR
01010521	1A Beet, sugar-babyfood Full comment: 40 CFR 180.443(b)	0.700000	1.000	1.00040 CFR
01010530		1.000000	1.000	1.00040 CFR
01010531		1.000000	1.000	1.00040 CFR
13010550	13A Plackberry Full comment: 46 CFR 180.443(a)	2.000000	1.000	1.00040 CFR
13010560	13A Slackberry, juice Full comment: 40 CFR 180.443(a)	2.000000	1.000	1.00040 CFR
13010561	13A Blackberry, juice-babyfood	2.000000	1.000	1.00040 CFR
13010580	Full comment: 40 CFR 180.443(a) 13A Boysenberry Full comment: 40 CFR 180.443(a)	2.000000	1.000	1.00040 CFR
05010610		0.030000	1.000	1.00040 CFR
05010611	5A Broccoli-babyfood Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
05010620		0.030000	1.000	1.00040 CFR
05020630		0.030000	1.000	1.00040 CFR
05010640	5A Emussels sprouts Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
15000650		0.030000	1.000	1.00040 CFR
15000660	15 Euckwheat, flour Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
01010670		0.030000	1.000	1.00040 CFR
05010690		0.030000	1.000	1.00040 CFR
05020700	5B Cabbage, Chinese, bok choy Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
05010710		0.030000	1.000	1.00040 CFR
05010720		0.030000	1.000	1.00040 CFR
09010750		0.200000	1.000	1.00040 CFR
04020760		0.030000	1.000	1.00040 CFR
01010780		0.030000	1.000	1.00040 CFR
01010781	1AB Carrot-babyfood Full comment: 40 CFR 180.443(d)	0.030000	1.300	1.00040 CFR
01010790		0.030000	1.300	1.00040 CFR
09010800		0.200000	1.000	1.00040 CFR
01030820	1CD Cassava Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
01030821		0.030000	1.000	1.00040 CFR
05010830	5A Cauliflower Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
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Human Exposure and Risk Assessment

DP Barcode: D296308 Page, 26 of 46

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12.000.002	Full comment: 46 TFR 151.4016.				
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37.0000210	Full dommon': 48 OFR 180,440 d				
19000011	12 Cherry, paico-babyiosa	5 00 marks	5 8 51:	. 40 %.	14.50
120000000	Fuel comment: 40 CFR 180,44307	6.6.5.4.4			ı
40000930		0.020646	ford	100000	1. 1
400000000	Full comment: 40 CEP 180.4477.	C. C. C. 1317 11			,
40000031	F Chicken, meat-babyrood	alement.	100	1,4645.11	4.4.
40000000	Fol. Comment: 40 OFR 189.94 (C)		* 50.0	* * *	
4.00 ne 9.4.0	P Chicken, liver	0.3920090	1,754	1.000	15.1
100000000	Fall Comment: 40 CFF two.45 yes				
40m0095n	4 Chacken, wear byyoroduct.	1.41 (#1	1.1 (10)	100	£11.
40000000	Fit I comment: 40 CER 186.44335				
40000451	I Thicken, mean Typnoductr-onlying	6-20-00-00	10.11.1	41.2524	* 1
1000000111	Full Commett: 40 SPR St. 41 Feb.				
40000960	P hacken, tas	4 - 10 Med 163	1.00	100710	
4001000	Fort demonst: 40 CPT First (se				
40000961	P Chinken, tac-babylo d	31. March 197	104 660	1	111
	Full comment: 45 DHZ New York				
40060976	A Chileban, Shin	 (1) (1) (2) (1) 	-:	5 10 40 4	91
	Pull Comment of About the Cook William				
40000971	Figher, okin-babyfoso	0.00000	1.1477	Productive .	
	Full comment: 40 OFF 180.14 com				
06030980	40 Objekpes, seed	A. 32 (A).		141.414	· · · · · ·
	Pull comment: 40 CPA 180,44 or				
06030981	60 Onickpea, seed-habytood	6,430,435	[1 + (1000	1.11
	Pull comment: 46 CFR TAULANCES				
06030990	60 Anickred, Lloud	1,030,000	(, i. (,	1.00	
	Fulls comment: 46 1FF 336.24500				
01011000	TAB Chicory, roots	100 (18t) (y)	1	1 P. D.	*
	Full comment: 46 JPR 156 #45(6)				
02001010	. Thicory, tops	0.030000	10000	.,114	126
	Fig. Commercial Guardian (C. 44 July)				
09021020	9B Ohinese waxqourd	(N_220) (n_1) (n_2)	Light sec	10 10 11 12 1	1.1
	Public remains as to the time of Could to a				
04011040	4A Theygoetbeshim, get and	6.50 50	100	18 8878	in p
	The first principal of the term of a sufficiency				
050/1178	55 Colley rdu	0.040000	1.145	2000	1 in 1
	Proceedings to the PACING 44 for				
15001200	15 Cern, field, flow	11, 34,000	1 2036	20,150	ř.
	Struct regionerty: 40 - FT 186, 44 to 0				
1590120.	Mr. Frank, fine ki, předkrajajem kod	(0,0)1000		10111	•
	Entre Community AC CIP (80) 900	State States			
15001010	the term, field, mean	and the state of	1		•
	Fig. 1 Semmeral 1 Aug 1975 (1984) 1995	and the second			
15001011	The Control of the Page measure Transplaced in the Control of the	and the fit are		* 646	
	$C_{\rm th} = C_{\rm th} \cos (1 + i \pi h) + i \pi h + i \pi h + i \pi h$ $C_{\rm th} = C_{\rm th} \cos (1 + i \pi h) + i \pi h + i \pi h$ $C_{\rm th} = C_{\rm th} \cos (1 + i \pi h) + i \pi h + i \pi h$ $C_{\rm th} = C_{\rm th} \cos (1 + i \pi h) + i \pi h$	to the district	*		
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Total Miller Dis-		•			

Human Exposure and Risk Assessment

DP Barcode: D296308

Page: 27 of 46

15001240	Full comment: 40 CFR 180.443(d) 15 Corn, field, syrup Full comment: 40 CFR 180.443(d)	0.030000	1.500	1.00040 CFR
15001241	Full comment: 40 CFR 180.443(d) 15 Corn, field, syrup-babyfood Full comment: 40 CFR 180.443(d)	0.030000	1.500	1.00040 CFR
15001250	15 Corn, field, oil Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
1500125	15 Corn, field, oil-babyfood Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
15001260		0.030000	1.000	1.30040 CFR
15001270	15 Corn, sweet Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
15001271	15 Corn, sweet-babyfood Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
95001280	CO Cottonseed, oil Full comment: 40 CFR 180.443(a)	0.320000	1.000	0.01040 CFR
95001281	O Cottonseed, oil-babyfood Full comment: 40 CFR 180.443(a)	0.020000	1.000	0.01040 CFR
04011330		0.030000	1.000	1.00040 CFR
04011340	4A Cress, upland Ful comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
09021350	9B Cucumber Full comment: 40 CFR 180.443(a)	0.200000	1.000	1.00040 CFR
13021360	13B Currant Full comment: 40 CFR 180.443(a)	3.000000	1.000	1.00040 CFR
13021370	13B Currant, dried Full comment: 40 CFR 180.443(a)	3.000000	1.000	1.00040 CFR
04011380	4A Dandelion, leaves Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
01031390	ICD Dasheen, corm Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
02001400	<pre>2</pre>	0.030000	1.000	1.00040 CFR
13011420	13A Dewberry Full comment: 40 CFR 180.443(a)	2.000000	1.000	1.00040 CFR
70001450		0.020000	1.000	1.00040 CFR
73001451	P Egg, whole-babyfood Full comment: 40 CFR 180.443(a)	0.020000	1.000	1.00040 CFR
70001460		0.020000	1.000	1.00040 CFR
70001461	P Egg, white (solids)-babyfood Full comment: 40 CFR 180.443(a)	0.020000	1.000	1.00040 CFR
70061470	P Egg, yolk Full comment: 40 CFR 180.443(a)	0.020000	1,000	1.00040 CFR
70001471	P Egg, yolk-babyfood Full comment: 40 CFR 180.443(a)	0.020000	1.000	1.00040 CFR
08001480	8 Eggplant Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
04011500	4A Endive Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
04021520	4B Fennel, Florence Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
	1CD Canger Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
	1CD Cinger-babyfood Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
	1CD Ginger, dried Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
	TAB Ginseng, dried Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
23001690	Full comment: 40 CFR 180.443(a)	0.100000	1.000	1.00040 CFR
23001700	M West, meat byproducts	0.209000	1.000	1.00040 CFR

Human Exposure and Risk Assessment

DP Barcode, D296308 Page: 28 of 46

	Fig. 1 (comment): 46 tille 190,44 (c)				
23001710	CM Gerat, tal First community 46 CMM (80, 16,000)	er professional	4 (4) A N	100000	
23001720	(N. Goat, kidney	0.200001	1.70	1940,40	1
23001730	Puil comment: 46 CFK 1801445.4 M. Spat, Liver	1, 1000001		167,41.	1971
	Pall comment: 46 CeN .80.44-14-	7.00000			
130/1/40	13B Gooseberly Euli comment: 46 CFR 20.44777				
95001750	C Grape Full comment: 40 CFB 185,44 (.	1.000	, 9	5.554.50	74 ja
95001760	O Grape, futge	1.46.000	(γ_1,β_2)	4 4 (4)45	5.5
95001761	Furl comment: 45 (FR = 86.44)() O Grape, juice-bapytood	1 (44007,780	1 (16), (e desare	: "1
	Full comment 40 CFR (55.44)				
95001770	Compe, leaves Full comment: 40 CFP 150.94:10:		, , selli	.,61947	} };
95001780	O Grape, raisin	10.000000	1.00	71.47 (4)	J.W
95001790		1.000000	1 5000	61,41,0%	*: ,
0.6001.000	Fid: commont: 40 CTR (FA.445) 60 Suar, seed	0.03900	1 11 11 11	. 81 647	4 - 1415
	Fid 1 comment: 40 CFE :80.44.71)				
06031821	6C Guar, seen-babyfood Full comment: 40 CPR 180.44 ***	7.02900	N 4,50	(-1:04)	* *
09011870	9A Honeydew melon	5.20000.	1.1770	Est Conse	
95001880	 Pull Commetant 40 OFF (2014) Description 	1,96,00	10.243	, at 14	
	Pur comment. FC CPP 188 (eff.)	T. WONOS			
A4001690	M Horse, ment Pall comment: 40 TFE (86),445				
01011900	2AB Horsenaction Cdl1 comments 40 TRF 181.445.cc	10 per 44 (1971)	14.5	10.000	•
05011940	03 - 104 a	5.03 300	" Terr	7 6,57	111.
05011966	Pale Comments 40 OUR 185.04 PC 5A - Foldings:	5. Estechi	1, 9.	1.17/14	11
	Fluid Commission 40 OFF 1919 4 980	0 5,006			
06032030	60 Lentil, wood Followmment: 40 CTR 80.4474:				
04012040	4A Lettuce, head	7.635665	12010		. : }
04012050	Fig.1 Scamero: 46 CPR 186,44-10 4A - Behluce, loaf	4.630000	1.00%	1 1000	" a fa
13012096	Full comment: 40 CFA 150.16 cm	2.00000		4 441	:*;
	Fug L domment: 40 TER 188,445 ta				
	Doministry tak Profesional Cartest CER (1907) (4) Gas	0.75()*0.5°0.			
170021121	The Milk, for a baby teach at him term	2.10007	1	10.000	**
27012230	Hull pommer, 1 45 (FR 166, 44 (15)) Dec. Milk, noticed sed-25	4197	1 11	11.00	**
27612231	The Mark, weather solins-body tensor in	0., 0:00	4 1 3		···
	Fully symmetric 10 CMP 150, 447 (2)				
27022240	D. Mark, watch Full commonts 40 CFP 1800-44263	0.700%)			
37022241	(i) Milk, water-baby body totach in one.	Margabeth a	10.1.	* + - 1	4 42
8703E251	 First community of a SER 1280 and to the Mills of Staget Charles stock to the first 	4.15714			17.1
	 For proceedings to the Conference of the Proceedings of the Conference of the Conference	1, 11 Mark 1			
	Programme of the Alexander of	6,03g/m3			
050012290	FE Mississippi de virus debis de periodo de virus de la Constitución				
13002300	The New York Control	, and estimate	1		x 3
.5002310	 Fig.) is a managed of the definition of the desired o	0.00000	* *:	1.5	-

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1500232	Full comment: 40 CFR 180.443(d) 0 15 Oat, flour Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
1500232	1 15 Oat, flour-babyfood full comment: 40 CFR 180,443(d)	0.030000	1.000	1.00040 CFR
1500233		0.030000	1.000	1.00040 CFR
1500233	1 15 Cat, groats/rolled oats-babyfood Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
0800234		0.030000	1.900	1.00040 CFR
04012480	O 4A Parsley, leaves Full comment: 40 CFR 180.443(d)	0.030000	1.300	1.00040 CFR
01012500	TAB Parsley, turnip rooted Full comment: 40 CFR 180.443(d)	0.030000	1.300	1.00040 CFR
01012510	1 1AB Parsnip Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
01012511	l IAB Parsnip-babyfood Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
06022550) 6B Fea, succulent Full comment: 40 CFR 180.443(d)	0.030000	1.000	1,00040 CFR
06022551	6B Fea, succulent-babyfood Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
06032560		0.030000	1.000	1.00040 CFR
06032561	6C Fea, dry-babyfood Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
06012570) 6A Fea, edible podded, succulent Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
0€032580	0 6C Pea, pigeon, seed Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
06022590	68 Bea, pigeon, succulent Full comment: 40 CFR 130.443(d)	0.030000	1.000	1.00040 CFR
12002600	Full comment: 40 CFR 130,443(a)	2,000000	1.000	0.32040 CFR
12002601	Full comment: 40 CFR 180.443(a)	2.000000	1.000	0.32040 CFR
12002610	Full comment: 40 CFR 180.443(a)	2.000000	7.000	0.32040 CFR
	<pre>12 Peach, dried-babyfood Full comment: 40 CFR 180.443(a)</pre>	2.000000	7.000	0.32040 CFR
12002620	Full comment: 40 CFR 180.443(a)	2.000000	1.000	0.32040 CFR
	12 Feach, juice-babyfood Full comment: 40 CFR 180.443(a)	2.000000	1.000	0.32040 CFR
	8	1.000000	1.000	1.00040 CFR
08002701	Full comment: 40 CFR 180.443(b)	1.000000	1.000	1.00040 CFR
08002710	Full comment: 40 CFR 180.443(b)	1.000000	1.000	1.00040 CFR
08002711	Full comment: 40 CFR 180.443(b)	1.000000	1.000	1.00040 CFR
08002720 08002721	Full comment: 40 CFR 180.443(b)	1.000000	1.000	1.00040 CFR
08002721	Full comment: 40 CFR 180.443(b)	1.000000	1.000	1.00040 CFR
95002750	Full comment: 40 CFR 180.443(b)	1.00000C 3.000000	1.000	1.00040 CFR 1.00040 CFR
95002730	Full comment: 40 CFR 180.443(a)	4.000000	1.000	1.00040 CFR
95002840	Full comment: 40 CFR 180.443(a)	4.900000	3.900	1.00040 CFR
12002850	Pall comment: 40 CFR 180.443(a)	2.000000	1.000	0.15040 CFR

Human Exposure and Risk Assessment

DP Baroode | D296308 Page: 30 of 46

					7 - FREE T
12002851	Full comments (4) offs Procedy (a) Flum-babytood	1.00000	.660	$r=t_{r}e^{r}$	·
12002860	Full comment: 40 TPD 180.300(6)	Pulfreibite :	.000	to include	
12002861	Full comment: 40 CEP 180.443(a) 10 Plum, prone, Liesh babyfood		1,000		es.
12002870	Full comment: 40 CFF 180:4476; - il flum, prune, diffet	2.5000000	67	to I dept	1:
12002871	File Comment: 46 dFS 180.4el6e, 11 Flum, prome, dried-babyžoce	3 Or (23)	"(4.4	4 -
12002880	Fill comment: 44 OFF 196.44542 The Flum, practice galaxy Full comment: 41 OFF 186.44542	1.100.1400	1,640	C. Bray	· .
12002881	Fill comment: 4: FFR M: 44F/0	$\operatorname{Hom}(\mathcal{C}(\mathbb{P}))$	1.000	, 3 - H44.	i e
25002900	Full domments 40 CFR [80.443.8)	1, 1000.200	1.61		
25001901	M Pork, meat-babyfora Full comment: 40 TFR . 0.44.00	el Design	94	$F_{-1}(\hat{\chi})(\hat{\eta})^{-1}$	٠.
25002910	M Fork, skip Bull comment: 46 FFR 188.44*(a)	0.2018174177	2 (0.00)	1.7040	2.5
25002920	M. Fork, meat byproducts Fell comment: 46 SF -80.443(a)	0.000066	(17)	1.074.	
25002921	M. Fork, mean by rospectionably self. Fig. 1 comment: 40 TER (St. 445)a.	$O_{1}(2)Q_{2}(a(z))$		2000	
25002930	Work, mat Fall comments 40 PR et .44 Pres	$C_{1}\left(0^{\frac{1}{2}}\right) = 0$		1000	
21002931	Y Forth, fat-bergroop Full community for the factories	6.0Horor		1000	
	N Fork, Ridney Fedd domment: 40 TER Tw(.443-4-	6.000 cm			
	M. Pork, liver Full commence of the projection	9.1000.996		La de Ala	
	[3] Potosta, integral Fig. , comments (40 offices), 44 factor	forth format		* * * 1	
01632976	Fe11 comment: 40 CFW 186.44 (G)	6 (13 July 16)			
	Fel. Posato, dry (grandles/ flat o s : Fel. comment. 4d (FE 186.44) (d)	4 <u>1</u> 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		1.51 60	
	10 Folata, flour Full comment: 40 CFR 180,443(f)	a. 4. 800ga. a. 33. 4.34			
	10 Potato, thou-habytood Full comment: 40 CER = 6.14%(t)	0.030mm			
	IC Porato, Tubes, w poet Publicomments Ac CCR 18(.44574)	6.17 West			
	The Polyton Colors without Daily on the Filter Commerce of the THE THE LANGUAGE CO.	100 mm	. ,		
	<pre>if Potato, timer, kyr perd Fill meament: Ac FR FRU, 4d rfs Fr Perstn, tuber, will peer rhan Licht</pre>			19.00	
	Fig. 1. Posticy, and the property of the prope	1 (00 00 c)			
	Fight commont: 40 TER The 4450: Property, education face:	nga Magayi		n Arrigan	
	Fig. 1 Clambers . Ab Chr. 196.34 (6)	, 8 7 (c. 1	1 (1.)		
66(c)3041	 Fig. 1. See mediate to the CPP of the AAN to Promite type of the result AAN. 	, 70 july 1	1111	gen de	
	Fig. 1 - English of the Administration of th	Eliferates	1.7	Transport	: ·
0.000(80)	Burgo Chimineral Color William (No. 1914) and the State of the Color o		1.00	**************************************	•
7. 9.0.13 () O O	Fig. 1 to maintain Net 1 to 10 to 1 and 1 and 1 to 10	, etc.	, f ₁ ,		
2011/13/190	Many Control of Contro	4 (10) (1)	1. 11.		

Human Exposure and Risk Assessment

DP Barcode: D296308

Page: 31 of 46

01013140	Full comment: 40 CFR 180.443(d)) 1AB Radish, roots Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
02003150		0.030000	1.000	1.00040 CFR
01013160) IAB Radish, Oriental, roots Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
02003170) 2 Radish, Oriental, tops Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
05023180		0.030000	1.000	1.00040 CFR
13013200	13A Raspberry Full comment: 40 CFR 180.443(a)	2.000000	1.000	1.00040 CFR
13013201	13A Raspberry-babyfood Full comment: 40 CFR 180.443(a)	2.000000	1.000	1.00040 CFR
13013210) 13A Raspberry, juice Full comment: 40 CFR 180.443(a)	2.000000	1.000	1.00040 CFR
13013211	13A Raspberry, juice-babyfood Full comment: 40 CFR 180.443(a)	2.000000	1.000	1.00040 CFR
04023220		0.030000	1.300	1.00040 CFR
15003230	15 Rice, white Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
15003231	15 Rice, white-babyfood Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
15003240	15 Rice, brown Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
15003241	15 Rice, brown-babyfcod Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
15003250	Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
15003251	15 Pice, flour-babyfood Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.60040 CFR
15003260	15 Rice, bran Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
15003261	<pre>15 Rice, bran-babyfood Full comment: 40 CFR 180.443(d)</pre>	0.030000	1.300	1.00040 CFR
	<pre>LAB Rutabaga Full comment: 40 CFR 180.443(d)</pre>	0.030000	1.000	1.00040 CFR
15003280	Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
15003290	Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
01013310	1AB Salsify, roots Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.00040 CFR
02003320	2 Salsify, tops Full comment: 40 CFR 180.443(d)			1.00040 CFR
26003390	Full comment: 40 CFR 180.443(a)	0.100000	1.000	1,00040 CFR
26003391	Full comment: 40 CFR 180.443(a)	0.100000	1.000	1.00040 CFR
26003400	Full comment: 40 CFR 180.443(a)	0.200000	1.000	1.00040 CFR
26003410	Full comment: 40 CFR 180.443(a)	0.050000	1.000	1.00040 CFR
26003411	Full comment: 40 CFR 180.443(a)	0.050000	1.000	1.00040 CFR
26003420	Full comment: 40 CFR 180.443(a)	0.200000	1.000	1.00040 CFR
26003430	Full comment: 40 CFR 130.443(a)	0.030000	1.000	1.00040 CFR 1.00040 CFR
1500344C 15003450	Fu. 1 comment: 40 CFR 130.443(d)	0.030000	1.000	1.00040 CFR
06003470	Fual comment: 40 CFR 130.443(d)	0.030000	1.000	1.00040 CFR
00000470	, mysoury duck	0.00000	1 1 0 0 0	1.00010 011

Human Exposure and Risk Assessment

DP Barcode: D296308 Page: 32 of 46

	Rull comment: ab Des 180.447(cb)				
06003480	Ge Soybean, frour Fund command: CA CER CER.44730	March Control	1000	41.3635[77]	1
06003481	e – Doybean, iloar babyisad	4.700,00	1000	(1)14 F	
06003490		Section but	1.4.0	940(34)	20
06003491	Full comment: 45 CFR 189.441(c) c Soybean, soy milk-banyfoode. Full comment: 40 CFF 180.44+60)	0.1630,000	1 - 00	1990-	2
06003500	(6 Soybean, 41)	0.0000	117.0	1.700(0)	, whi
06003501	Full comment: 40 CEN 180.44*:d: 6 Soybear, oil-barylood	Secretary Me	, fa.	. (100-4)	15.5
95003520	Pull comment: 46 TPR DS0.44891 Spearmin:	N. (a(0)00)	(x, C, D)	, fagifika	· III
95003530		V, Cent(0)	1.000	19496-49	1
04013550	Mult comment: 10 CME 180.44-167 4A Spinaci	0.030000	().	W104	· ····································
04013551	Fill comment: 40 CFR (E0.145)c. 4A Spinach-rabyLook	the Contraction		.:,CCA.	*:
09023560		6,19967	(. ''. '	+ P (Z	:
09022563	Fill comments AC DEV 180.4470 a 9F : Canash, summer-backtood	10,000,000,000	1.4141	4 ** 1 · 1	5. S.
09023570	Folic comment: 40 CTF 180.74:(6 98 - Squash, winter Folicomment: 40 CFC 180.44 (a)	0.0000	1,00	The specific	er t
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Human Exposure and Risk Assessment

DP Barcode: D296308

Page: 33 of 46

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15004011 15 Wheat, grain-babyfood	15004010	15 Wheat, grain	0.030000	1.000	1.00040 CFR
15004020 15 Wheat, flour	15004011	15 Wheat, grain-babyfood	0.030000	1.000	1.00040 CFR
15004021 15 Wheat, flour-babyfood	15004020	15 Wheat, flour	0.030000	1.000	1.00040 CFR
15004030 15 Wheat, germ	15004021	15 Wheat, flour-babyfood	0.030000	1.000	1.00040 CFR
15004040 15 Wheat, bran	15004030	15 Wheat, germ	0.030000	1.000	1.00040 CFR
Full comment: 40 CFR 130.443(d) 01034060 1CD Yam, true	15004040	Full comment: 40 CFR 130.443(d)			
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Human Exposure and Risk Assessment

DP Barcode: D296308

Page: 35 of 46

U.S. Environmental Protection Agency DEEM-FCID ACUTE Analysis for MYCLOBUTANIL Ver. 1.33

(1994-98 data)

Residue file: myclo-tol.R98 Analysis Date: 02-25-2004/12:46:59 Residue file dated: 02-25-2004/10:41:05/8

Adjustment factor #2 NOT used.

Acute Reference Dose (aRfD) = 0.600000 mg/kg body-wt/day

Daily totals for food and foodform consumption used. Run Comment: "Tolerance file to evaluate Section 18"

Daily Exposure Analysis /a Females 13-49 yrs (mq/kg body-weight/day) per Capita per User 0.003687 0.003692 0.004223 0.004224 0.000055 0.000055 0.61 0.62 Standard Deviation Standard Error of mean 0.000055 Percent of aRfD 0.61 0.62

Percent of Person-Days that are User-Days = 99.86%

Estimated percentile of user-days falling below calculated exposure in mg/kg body-wt/day with Percent of aRfD

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
10.00	0.000553	0.09	90.00	0.009098	1.52
20.00	0.000909	0.15	95.00	0.012261	2.04
30.00	0.001252	0.21	97.50	0.015544	2.59
40.00	0.001671	0.28	99.00	0.018961	3.16
50.00	0.002167	0.36	99.50	0.023077	3.85
60.00	0.002817	0.47	99.75	0.027219	4.54
70.00	0.003807	0.63	99.90	0.035964	5.99
80.00	0.005719	0.95			

Estimated percentile of per-capita days falling below calculated exposure in mg/kg body-wt/day with Percent of aRfD

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
					
10.00	0.000549	0.09	90.00	0.009089	1.51
20.00	0.000905	0.15	95.00	0.012255	2.04
30.00	0.001248	0.21	97.50	0.015535	2.59
40.00	0.001668	0.28	99.00	0.018954	3.1.6
50.00	0.002163	0.36	99.50	0.023069	3.84
60.00	0.002812	0.47	99.75	0.027214	4.54
70.00	0.003803	0.63	99.90	0.035963	5.99
80.00	0.005712	0.95			

a/ Analysis based on all two-day participant records in CSFII 1994-98 survey.

Human Exposure and Risk Assessment

DP Barcode, D296308 Page: 36 of 46

Attachment 3. Input Residues and Processing Factors for Myclobutanil Chronic Dietary Assessment

U.A. Environmenta. Protection Agency 1994 99 995 DEEM-FOID Chronic analysis for MYCLOBUTARIL Residue file: C: Woduments and SetUings\htomer.l.My Doguments\hseies\hisk\doetasvasysis\nvcisetolesip.N98 Adjust, factors Analysis Fair Openin-18864 Rebudbert on dations by HOME 1004/10:55 is 15 or Reference dose (RiD) = 0.0 5 mg/kg bw/day -Comment: Polerance file to challenge Southur D Restrict And Anna Community EPA Code Grp Food Name: (7) (6) 14000030 t4 Almond Pull comment: 40 CFF 180.4436a 0.100,000 130 () 14000031-14 Almond-babyt od Pull comment: 40 CFR 180 94 (b). 14000040 14 Aimond, 6.1 41 (1011) Publicomment: 40 OFF 180.943pe. 14000041 14 Aumond, Jima Abylon. Pull comment: 40 199 180.44-199 . :-:5000 04016050 4A Amaranth, Lesty Cutl comment: 40 (777) 186 44-645 in La Braight 11000070 11 Apple, foult with men-Full comment: 46 000, [6, 345] the Park Control of the State of 1.10 11060080 1) - Apple, poetes from Pull domment: 40 CFR .80 140(1) Figure 1: Apple, passed indicates to Self commence 40 SFP 160 K43::: $11000096 \ 11 \ \mathrm{App.}(\alpha_{\ell}) \oplus \mathrm{feat}$ Poil comment: 40 TER Inf Airia) lidaodek li Apple, a. o.gabebgioba a E.(1971) 600 161 500 E. 77 1000101 11 Apolo, price supprison
Full comment: 40 CPF 180 (4) the 100 men for the (50),000 11000110 11 Apple, catalog Fa.1 comment: 40 CFS 180 443300 C. 112 [1600][] II Apple, same dangtowk 45, 30(600.5 Full comment: 40 OFF 100 45: OF 12000120 12 Apriced , committee For Fig. regime into $(400\,\mathrm{MHz})$ 1400 $100\,\mathrm{MHz}$ print(6),ed(6) 3 - 4 012 12000121 12 April of enabytout Bull commend t 40 CPS 170.4730ac 12005130 EP Apricol, Hilled Fall regiment 40 CPF 180 -4 -401 EPG62140 LE April 12 - 3 - 4 - 401 11. 40% (100) 96.47 Commercial 4C 14T 18G, 64 s(A) 1 Spiral Dr. Approved and negative of Patricommunet. 40 TMR Dec 94's (a) 0.1730160 100 Ampowers, first Fig. 1 (comment): 40 (fe% .60.44 (d)) #10.6454 (CP Arrewron), 1.60. (babylood - 1111 communit: 40.655 170 170 1450) But vigation 1 20(0.20)00 95000 feet to a Astronom begins and a Fig. 1 Commonth: 41 Color of Colors Cleski za 1919. Act smale , Range Center, Communication 40, 200 (1995). graduate for the 06-16-30 GA - Arconduc The first promount of the form of the first 950000 Chapter Aspendiges Carlo Campo at a 40 TeV Color of the color o Fig. 1. Production of the ACC (1998) (1871). 1.00 authorities Repaired which is a superior of the PP contribute of the contribution of the contribution of the superior of the contribution of the superior of the contribution of the contr

Human Exposure and Risk Assessment

DP Barcode: D296308 Page: 37 of 46

Full comment: 40 CFR 180.443(a) - PDP monito: 95000240 C Banana, dried	0.323000	3.900	1,000	40 CFR	
Full comment: 40 CFR 180.443(a) - PDP monitor 95000241 O Banara, dried-babyfood	0.023000	3.900	1.000	40 CFR	
Full comment: 40 CFR 180.443(a) - PDP monitor 15000250 15 Barley, pearled barley	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d) 15000251 15 Barley, pearled barley-babyfood	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d) 15000260 15 Barley, flour Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.000	40 CFR	
15000261 15 Barley, flour-babyfood Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.000	40 CFR	
15000270 15 Barley, bran Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.000	40 CFR	
06030300 60 Been, black, seed Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.000	40 CFR	
06020310 6B Bean, broad, succulent Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.000	40 CFR	
06030322 6C Bear, broad, seed Full comment: 40 CFR 180.443(d)	0.030000	1.000	1,000	40 CFR	
06020330 68 Bcan, cowpea, succulent Full comment: 40 CFR 180.443(d)	0.030000	1.000	1,000	40 CFR	
06030340 60 Bear, cowpea, seed Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.000	40 CFR	
06030350 60 Bean, great northern, seed Full comment: 40 OFR 180.443(d)	0.030000	1.000	1.000	40 CFR	
06030360 6C Bean, kidney, seed Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.000	40 CFR	
06020370 68 Bean, lima, succulent Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.000	40 CFR	
06030380 60 Bear, lima, seed Full comment: 40 OFR 180.443(d)	0.030000	1.000	1.000	40 CFR	
06030390 60 Bean, mung, seed Full comment: 40 OFR 130.443(d)	0.030000	1.000	1.000	40 CFR	
06030400 6C Boan, navy, seed Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.000	40 CFR	
06030410 60 Near, pink, seed Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.300	40 CFR	
06030420 6C Bean, pinto, seed Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.000	40 CFR	
06010430 6A Bean, snap, succulent Full comment: 40 CFR 180.443(a)	1.000000	1.000	1.000	40 CFR	
06010431 6A Beat, snap, succulent-babyfood Full comment: 40 CFR 180.443(a)	1.000000	1.000	1.000	40 CPR	
21000440 M	0.100000	1.000	1.000	40 CFR	
21000441 M Beef, meat-baby/cod Full comment: 40 CFR 180.443(a)	0.100000	1.000	1.000	40 CFR	
21000450 M	0.100000				
21000460 M Beef, meat byproducts Full comment: 40 CFR 180.443(a)	0.200000	1.000	1.000	40 CFR	
21000461 M Beel, meat byproducts-babyfood Full comment: 40 CFR 180.443(a)	0.200000	1.000	1.000	40 CFR	
21000470 M Beer, fat Full comment: 40 CFR 18C.443(a)	0.050000	1.000	1.000	40 CFR	
21000471 M	0.050000	1.000	1.000	40 CFR	
21000480 M Reet, Ridney Full comment: 40 CFR 180.443(a) 21000490 M Reel, liver		1.000	1.000	40 CFR	
Full comment: 4C CFR 180.443(a) 21000491 M Boof, liver-babytood	1.000000	1.000	1.000	40 CFR 40 CFR	
Full comment: 4C CPR 180.443(a) 01010500 JAS Rest, garden, roots	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d) C101050 TAR Beer, carden, roots-babytood	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d) 62000510 2 Feet, darden, tops	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d) 01010520 IA Beet, sugar	0.700000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(b) C1010521 1A Heer, sugar-baby&ood	0.700000	1.000	1.000	40 CFR	
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Human Exposure and Risk Assessment

DP Barcode: D296+08 Page: 38 of 46

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05020630 55	5 23 (50) (0)			
05010640 5A Bruskelb mprouth Full comment: 40 CFR 580.443 (J	1.50 (364))			
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04054560 45 - 15450 / 200530000 04054560 45 - 1545072 - 40 1	+ 3+1(10)	1.3		
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And Comments (4) The Code average of the Code and the Code average of the Code average	and congil	.* .		
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Human Exposure and Risk Assessment

DP Barcode: D296308 Page: 39 of 46

Full comment: 40 CFR 180.443(a) 40003930 P Chicken, meat	0.020000	1.000	1.300	40 CFR
Full comment: 40 CFR 180.443(a)				
40000931 P Chicken, meat~babyfood Full comment: 40 CFR 180.443(a)	0.020000	1.000	1.000	40 CFR
40000940 P Chicken, liver	0.020000	1.000	1.000	40 CFR
Full comment: 40 CFR 180.443(a) 40000950 P Chicken, meat byproducts	0.020000	1.000	1.000	40 CFR
Full comment: 40 CFR 180.443(a)				
40000951 P Chicken, meat byproducts-babyfoo Futl comment: 40 CFE 180.443(a)	0.020000	1.000	1,000	40 CFR
40000960 P Chicken, fat Full comment: 40 CFR 180.443(a)	0.020000	1.000	1.000	40 CFR
40000961 P Chicken, fat-babyfood	0.020000	1.000	1.000	40 CFR
Full comment: 40 CFR 180.443(a) 40000970 P Chicken, skin	0.020000	3.000	1.000	40 CFR
Full comment: 40 CFR 180.443(a)				
40000971 P Chicken, skin-babyfood Full comment: 40 CFR 180.443(a)	0.020000	1.000	1.000	40 CFR
06030980 6C Chickpea, seed Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.000	40 CFR
06030981 6C Chickpea, seed-babyfood	0.030000	1.000	1.000	40 CFK
Full comment: 40 CFR 180.443(d) 06030990 6C Chickpea, flour	0.030000	1.000	1.000	40 CFR
Full comment: 40 CFR 180.443(d)		•		
01011000 1AB Chicory, roots Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.000	40 CFF
02001010 2 Chicory, tops	0.030000	1.000	1.000	40 CFR
Full comment: 40 CFR 180.443(d) 09021020 9B Chinese waxgourd	0.200000	1.000	1.000	40 CFR
Full comment: 40 CFR 180.443(a) 04011040 4A Chrysanthemum, garland	0.030000	1.000	1.000	40 CFR
Full comment: 40 CFR 180.443(d)				
05021170 58 Collards Full comment: 40 OFR 180.443(d)	0.030000	1.000	1.000	40 CFR
15001200 15 Corn, field, flour	0.030000	1.000	1.000	40 CFR
Full comment: 40 CFR 180.443(d) 15001201 15 Cern, field, flour-babyfood	0.030000	1.000	1.000	40 CFR
Full comment: 40 CFR 180.443(d) 15001210 15 Corn, field, meal	0.030000	1.000	1.000	40 CFE
Full comment: 40 CFR 180.443(d) 15001211 15 Cern, field, meal-babyfood	0.030000	1.000	1,000	40 CFR
Full comment: 40 CFR 180.443(d)				
15001220)5 Corn, field, bran Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.000	40 CFR
15001230 15 Corn, field, starch Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.000	40 CFR
15001231 15 Corn, field, starch-babyfood	0.030000	1.000	1.000	40 CFF
Full comment: 40 CFR 180.443(d) 15001240 l5 - Corb, field, syrup	0.030000	1.500	1.000	40 CFR
Full comment: 40 CFR 180.443(d)				
15001241 15 Corn, field, syrup-babyfood Full comment: 42 CFR 180.443(d)	0.030000	1.500	1.000	40 CEB
15001050 15 Corn, field, oil Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.000	40 CFR
15001251 15 Corn, field, oil-babyfood	0.036000	1.000	1.000	4G CFF
Full comment: 40 CFR 180.443(d) 15001260 (5 Coun, pop	0.030000	1.000	1.000	40 CFR
Full comment: 40 CFR 180.443(d)				
L5001270 T5 - Carn, sweet - Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.000	40 CFR
.5001271 15 Corn, sweet-babyfood Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.000	40 CFR
95001280 0 Cottonseed, oil	0.020000	1.000	0.010	40 CFR
Full comment: 40 CFR 180.443(a) 5001281 O - Cuttonseed, oil-babyfood	0.020000	1.000	0.010	40 CFR
Full comment: 40 CFR 160.443(a) 4011330 4A - Cress, garden	0.030000	1.000	1.000	40 CFR
Full comment: 45 CFR 160.443(d) 4011340 4A - Cress, upland	0.030000	1.000	1,000	40 CFR
Pull comment: 40 CFR 180.443(d) 9021350 4B - Cloumber	0.200000	1.000	1,000	40 CFR
Full comment: 40 CFR 180,443(a)				
3021360 13B Current	3.000000	1.000	1,000	40 CFR

Human Exposure and Risk Assessment

OP Barcode: D2963(N Page: 40 of 46

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Full comment: 46 CrF [80.543(A)					
13021370 13F Charant, oriot)="(00)(0	1 17	**: *	1.	1°+
Pell comment: 40 CFF :80.44 (L)	. C. gerrobe	. **		4	
04831388 4A					
Al031390 ICE Dasheen, corm	June 18 (19 G. 19 G.	1.366	2.23	1	
Full comment: 40 CFF (60.44.162)					
02001400 Dasheen, leaves	1 (4000)	, origin	* 1*	1	W 4
Post commerc: 40 PF (80.463 vi)	5.10000G	000	. 10	9.54	
13031420 13A Dewberry Pull comment: 43 OFK 180-44250			•		
70001450 F Eqq. whole	. 11200-01.	1,377,47	£ 45°	1.	· ·
Full comment: 40 CFR 180,44 (a)					
70061451 : Sqq, whole-barytood	(F.C0)	46.1	4 700	4	* *
Pull commenc: 40 CPM 180,44*(a)	1, 570, 100	1, 40	100	1	1.5
70001460 F Ling, White Full comment: 4. CFB line.445(8)					
7006.461 % Agg, while (solids) babyton:	, a *(ta())	1.200	1000	4.1	4
Full commons: 40 OPE 180.400(a)					i
70001470 F - Bug, Mosk	y 2101 (12	1.00	1, 110		i
Full commons: 40 OFR 180.44:(d)	1,5056600	. 200	(1)100	í	
700014/17 Egg, yelk-babyfood Full comment: 40 OFK 180.443(4)					
08001480 s	F. C. SOR(C)	1.1	1,000	1	•
Full comment: 40 CFR 180.44310				,	
04011500 4A - Budive	13006		. 4.	i -	• •
Mu-1 comment: 40 CMB (50.44301)	ar_550000	, eg.	+ 44"	4.1	
04021520 48 Ferriol, Florence Full connect: 40 CFF 180.445 (C)		, .			
010216n0 107	, (> <0.070	2.2.2	1443	- 1	
Full comment: 40 JF 180-443730	1.0				
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Olulies We canser of third	5., 80000	, 3.40		÷	í
Full comment: 40 (FP 180, 14 × (t)	page of the file	197			
03001690 M	100				
Full commont: 40 FFF 180.44 year 20001700 M Goas, meal byproducts	$(a_1)^{\alpha_1}(a_2) A(a_3)$	1.1500	•	1	**
Full romment: 40 OFF 180.443(a)					
23001710 M Goat, tal	0.00,000	1.170			· *
Full Comment: 40 485 185,4441(a)	n () () ()	1 (1-1)	1.14	111	!
28001720 M Goar, Edanes	73 2 2 7 7 8 7 7 7 8				
Fill comment: 40 - 50 - 51 - 40 - 50 - 20 - 20 - 20 - 20 - 20 - 20 - 2	, i.e. 100000	100		i	+ T
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randa740 : ib - Go Moberto	, j. de(d)	a state	*	i "	•
Full comment: 30 CPS 131 (44-10)	0.64000	1. 100		47	.1
95001750 F Grape Pull comment: 49 775 189,447(6)					
95001760 fr Graphy 1975	1000000	\$10°	F	43	
Mills comment: 40 CER (RD.44-18)					
95001761 (hape, july) Salvis od	7,1,4,273,44	. (3)			•
Fig. 1 - comments : 4.1 (193 - 194 - 144 (4.4))	::50.0.00			:	
998((1775) () 33 apr., 33 VV5 Full comment: 48 PF (1875) (48 apr.					
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Fig.1.1 (commerce) and commerces and commerces					÷
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Fig. 1. at spans of the Child Child Child Child					
1. (4首任) 身保() [March 1986 (1		. **.		1	
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Human Exposure and Risk Assessment

DP Barcode: D296308 Page: 41 of 46

	 				
10 AND 100 AND 100					
Full comment: 40 CFR 180.443(d) 05011960 5A Kohlrabi	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFE 180.443(d)					
06032030 6C lentil, seed Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.000	40 CFR	
04012040 4A Lettuce, head	0.030000	1.000	000.5	40 CFR	
Full comment: 40 CFR 180.443(d) 04012050 4A Lettuce, leaf	0.030000	1.000	1.000	40 CFF	
Full comment: 40 CFR 180.443(d)					
13012080 13A loganberry Full comment: 40 CFR 180.443(a)	2.000000	1.000	1.000	40 CFR	
27002220 D Milk, tat	0.006000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(a) - PDP monitor 27002221 D Milk, fat - baby food/infant for	ing 0.006000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(a) - PDP monitor	ing				
27032230 D Milk, nonfat solids Full comment: 40 CFR 180.443(a) - PDP monitor	0.006000	1.000	1.000	40 CFF	
27012231 D Milk, nonfat solids-baby food/in	0.006000	1.000	1.000	40 CFP	
Full comment: 40 CFR 180.443(a) - PDP monitor 27022240 D Milk, water	ing 0.006000	1.000	1,000	40 CFR	
Full comment: 40 CFR 180.443(a) - PDP monitor					
27022241 D Milk, water-babyfood/infant form Full comment: 40 CFR 180.443(a) - PDP monitor	0.006000	1.000	1.000	40 CFR	
27032251 D Milk, sugar (lactose)-baby food/	0.006000	1.000	1,000	40 CFR	
Full comment: 40 CFR 180.443(a) - PDP monitor 15002260 15 Millet, grain	ing 0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d)	0.030000		1.000		
05022290 53 Mustard greens Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.000	40 CFR	
12002300-12 Nectarine	2.000000	1.000	0.200	40 CFR	
Full comment: 40 CFR 180.443(a) 15002310 15 Oat, bran	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d)					
15002320 15	0.030000	1.000	1.000	40 CFR	
15002321 15 Cat, flour-babyfood	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d) 15002330 15 Oat, groats/rolled oats	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d)					
15002331 15 Dat, groats/roiled oats-babyfood Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.000	40 CFR	
08002340 8 Okra Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.000	40 CFR	
04012480 4A Farsley, leaves	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d) 01012500 IAB Parsley, turnip rooted	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d)					
01012510 IAB Parship Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.000	40 CFR	
01012511 LAB Farship-babyfood	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d) 06022550 GB Fee, succeivent.	0,030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d)					
06022551 6B FHE, succulent-babyfood Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.000	40 CFR	
06032560 6C Pea, dry	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d) 06032561 6C Rea, dry-babyfood	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d) 06012570 6A Pera, edible podded, succulent	0.030000	1.000		AO GUD	
06012570 6A Pea, edible podded, succulent Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.000	40 CFR	
06032580 6C - Ima, pigeon, seed Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.000	40 CFR	
06022590 (B Fea, pigeon, succulent	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d) 12002600 12 Feach.	2.000000	1.000	0,320	40 CFR	
Full comment: 40 CFR 180.443(a)					
12002601 12 Feach-babyfood Full comment: 40 CFR 180.443(a)	2,000000	1.000	0.320	40 CFR	
12002610 12 Prach, dried	2.000000	7.000	0.320	40 CFR	
Full comment: 40 CFR 180.443(a) 12003611 12 Feach, dried-babyfood	2.000000	7.000	0.320	40 CFR	
Fail comment: 40 CFR 180.443(a)					
12002620 Tr Feerla, juice	2.006000	1.000	0.326	40 CPS	

Human Exposure and Risk Assessment

DP Barcode: D296308

Page: 43 of 46

Full comment: 40 CFR 180.443(d)					
60003010 P Forlery, other, meat	0.020000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(a)	0.020000	1.000	1.000	40 CFR	
60003020 F Poultry, other, liver Full comment: 40 CFR 180.443(a)	0.020000	1.000	1.000	40 CFR	
60003030 P Poultry, other, meat byproducts	0.020000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(a)	0.00000	1 000	1 000	40 000	
60003040 P Poultry, other, fat Full comment: 40 CFR 180.443(a)	0.020000	1.000	1.000	40 CFR	
60003050 P Poultry, other, skin	0.020000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(a) 09023080 9B Pumpkin	0.200000	1.000	1.000	40 CED	
09023080 9B Pumpkin Full comment: 40 CFR 180.443(a)	0.200000	1.000	1.000	40 CFR	
09023090 9B Pumpkin, seed	0.200000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(a) 04013130 4A Radiochio	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d)	0.050000	1.300	1.000	40 0110	
01013140 IAB Radish, roots	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR J80.443(d) 02003150 2 Eadish, tops	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.000	40 01.0	
01013160 1AB Radish, Oriental, roots	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d) 02003170 2 Radish, Oriental, tops	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.000	40 311	
05023180 5B Rape greens	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d) 13013200 13A Rasoberry	2.000000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(a)					
13013201 13A Raspberry-babyfood Full comment: 40 CFR 180.443(a)	2.000000	1.000	1.000	46 CFR	
13013210 13A Raspherry, juice	2.000000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(a)	0.00000				
13013211 I3A Raspherry, juice-babyfood Full comment: 40 CFR 180.443(a)	2.000000	1.000	1.000	40 CFR	
04023220 4B Rhubarb	0.030000	1.000	1.000	40 CFR	
Full comment: 45 CFR 180.443(d)	0.030000	1.000	1.000	40 CFR	
15003230 lb Rice, white Full comment: 40 CFR 180.443(d)	0.00000	1.000	1.000	40 CFK	
15003231 15 kind, white-babyfood	0.030000	1,000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d) 15003240 15 Rice, brown	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d)	0,050000		1.000		
15003241 15 Rice, brown-babyfood	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d) 15003250 15 R.de, flour	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d)					
15003251 15 Rice, flour-babyfood Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.000	40 CFR	
15003260 15 Rice, bran	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d)	0.020000	1 000	1 000	40 7757	
15003261 15 Rice, bran-babylood Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.000	40 CFR	
01013270 1AB Rutabaga	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d) 15003280 lb Rye, grain	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d)	0.030000	1.000	1.000	40 67.5	
15003290 15 Rye, flour	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d) 0101531C 1AB Saleify, roots	0.030000	1.000	1.000	40 CPR	
Full comment: 40 CFR 190.443(d)					
00003320 % Saleify, tops Full comment: 4% OFR 180.443(d)	0.030000	1.000	1.000	40 CFR	
26003390 M Shoop, meat	0.100000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(a)	0.100000	1 000	1 300	40 CET	
26003391 M Sheep, meat-babyLood Full comment: 40 OFR 180.443(a)	0.100000	1.000	1.000	40 CFR	
26003400 M Sheep, meat byproducts	0.200000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(a) 26003410 M Sheep, fat	0.050000	1.000	1.000	40 CFR	
Full comment: 40 OFR 180.443(a)					
26003411 M	0.050000	1.000	1.000	40 CFF	
26003420 M Sheep, kidney	0.200000	1.000	1.000	40 CFR	

Human Exposure and Risk Assessment

DP Barcode: D296308 Page: 45 of 46

Full comment: 40 CFR 180.443(d)					
15003811 15 Triticale, flour-babyfood	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d)					
50003820 P Turkey, meat	0.020000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(a)					
50003821 F Turkey, meat-babyfood	0.020000	1.000	1.000	40 CFR	
Ful! domment: 40 CFR 180.443(a)					
50003830 P Turkey, liver	0.020000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(a)					
50003831 P Turkey, liver-babyfood	0.020000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(a)					
50003840 P Turkey, meat byproducts	0.020000	1.000	1.000	40 CFE	
Full comment: 40 CFR 180.443(a)					
50003841 P Turkey, meat byproducts-babyfood	0.020000	1.000	1.300	40 CFR	
Full comment: 40 CFR 380.443(a)					
50003850 P Turkey, fat	0.020000	1.000	0.000	40 CFR	
Full comment: 40 CFR 180.443(a)					
500038\$1 P Turkey, fat-babyfood	0.020000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(a)					
50003860 P Turkey, skin	0.020000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(a)					
50003861 P Turkey, skin-babyfood	0.020000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(a)					
01033870 1CD Turmeric	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d)					
01013880 LAB Turnip, roots	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d)					
05023890 bB Turnip, greens	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d)					
09013990 9A Watermelon	0.200000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(a)					
09014000 9A Watermelon, juice	0.200000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(a)					
15004010 (5 Wheat, grain	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d)					
15004011 15 Wheat, grain-babyfood	0.030000	1.000	1.000	40 CFF	
Fuil comment: 40 CFR 180.443(d)					
15004020 15 Wheat, fabur	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d)					
15004021 15 Wheat, flour-babyfood	0.030000	1.000	3.000	40 CFR	
Full comment: 40 CFR 180.443(d)					
15004030 lb Wheat, germ	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d)					
15004040 15 Wheat, bran	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180,443(d)					
15004050 15 Wild rice	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d)		_ • • • •	- • • • •	*****	
01034060 ICD Yar, true	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d)			1.000		
01034070 ICD Yara bean	0.030000	1.000	1.000	40 CFR	
Full comment: 40 CFR 180.443(d)	0,00000	2.20,000	1.000	10 0110	

Human Exposure and Risk Assessment

DP Barcode (D29650). Page: 46 of 46

Attachment 4. Summary of Chronic Refined Dietary Exposure and Risk Estimates for Myclobutanil

U.S. Environmental Protection Agency

DEEM-FCID Chronic analysis for MYCLOBUTANI:

Residue file name: C:\Documents and Cent.rgs\promerulys;

Documents\tooles\tisk\dietary\myclo\myclo\-10 I-pdp.R96

Ad intimert test.rgl oAnalysis Date 03-06-2004/16:66:11 | Deem.coo ille dated: CB-08-00-00:11 is t

Reference dose (R(b, Chronic) - .CC: mg/bc nw/day

COMMENT 1: Tolerance file to evaluate Section 18

	Poter Exposero			
Population Subgroup	ng/kg nody wt/day	Personal v Questi		
U.S. Population (otal)	f.e02081			
U.S. Population (Spring season)	.002033 0.002235	% <u>.</u> 		
U.S. Population (summer season)	0.002255 0.001945			
U.S. Population (winter season) U.S. Population (winter season)	5 (O 1 Sep 2	, 15 , 30		
Northeast region	6.002270	1.50		
Midwest region	6.0(.2023	V		
Southern reques	6.001879	- **		
Western region	0.002110			
Hispanies	1 - 5-31:25-3	=		
Non-hispanic walles	1.002000	4.1		
Non-hispanic blacks	0.60200	· ·		
Kon-hisp/non-white/non-plack	0.002163	1.		
All infants (s ! year)	0.003172			
Nursing infants	7.003811	*		
Non-rursing infant:	\$1.6.02689	40 L Att		
Children 1-6 yrs	0.0051a3	2 1 1		
Chaldren 7-12 jus	0.002786			
Pemales 13-14 (and prod or nuceind)	7.00Ha00	* 1		
Females Air Jan's pred to number;	1.000.046	• •		
Pemales (-50 vr)	0.061626	• . *		
Females (3) openation turnship	18 (18 (1) (1/3 /			
Fomales 199 (not total)	$(\gamma, \alpha) \in G \setminus G$			
Mates 13-19 year	.001763			
Maies 201 yra).cdl580	* , *		
Seniors (F.C.)	7.097h_7	•		
Chindren 1-20,000	91, 900 () (v)	A		
Children bef yre	the and skill			
Children v. 1 - yr -	0.0000000			
Youth 13-19 yr.	Totali i i'r			
Addito CV-49 yra	11 (4) 1 4 h	•		
Adiats (W. yta)	0.2016(9)	1		
[Partial] 电压力 (基础基础 5)。				



R105683

Chemical:

Myclobutanil

PC Code:

128857

HED File Code

14000 Risk Reviews

Memo Date:

03/22/2004

File ID:

DPD296308

Accession Number:

412-05-0093

HED Records Reference Center 03/18/2005